

## Contents

- [1 Introduction](#)
- [2 Configuration](#)
- [3 Related show Commands](#)
- [4 Related Information](#)

## Introduction

The Cisco uBR-MC3GX60V cable interface line card is an M-CMTS, DOCSIS 3.0-compliant line card for the Cisco uBR10012 universal broadband router. It supports 60 upstream and 72 downstream channels.

The Cisco uBR10012 chassis with the Cisco uBR-MC3GX60V line card offers high density downstream solutions for IP Video over DOCSIS (VDOC) and cable high speed data (HSD) applications.

## Configuration

Current configuration : 168478 bytes

```
Last configuration change at 20:12:30 GMT Thu Jan 13 2011 by uname
NVRAM config last updated at 11:53:03 GMT Sun Jan 16 2011 by truecontrol
```

!

```
version 12.2
service nagle
no service pad
service tcp-keepalives-in
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service internal
```

!

```
hostname cmts23.hnsn
```

!

```
boot-start-marker
boot system disk0:ubr10k4-k9p6u2-mz.122-33.SCE.bin
boot system disk0:ubr10k4-k9p6u2-mz.122-32.8.10.SCE
boot-end-marker
```

!

```
logging buffered 9999999
no logging console
```

!

```
aaa new-model
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

!

```
aaa group server sample
server 66.18.87.9
server 66.18.88.10
```

!

```
aaa authentication login default local
aaa authentication login NO_AUTHEN none
aaa authentication login vty_method group sample local
aaa authentication login con_method group sample local
aaa authentication enable default group sample enable
aaa authorization console
aaa authorization config-commands
aaa authorization exec NO_AUTHOR none
aaa authorization exec vty_method group sample local
aaa authorization exec con_method group sample local
aaa authorization commands 15 vty_method group sample if-authenticated
aaa authorization commands 15 con_method group sample if-authenticated
aaa accounting exec default start-stop group sample
aaa accounting commands 1 default stop-only group sample
aaa accounting commands 15 default stop-only group sample
aaa accounting network default start-stop group sample
aaa accounting connection default start-stop group sample
aaa accounting system default start-stop group sample
```

!

```
aaa session-id common
clock timezone GMT 0
facility-alarm outlet-temperature major 58
facility-alarm outlet-temperature minor 48
facility-alarm outlet-temperature critical 85
facility-alarm intake-temperature major 49
facility-alarm intake-temperature minor 45
facility-alarm intake-temperature critical 73
```

!

```
card 1 4jacket-1
card 1/0 SPA-5X1GE-V2
card 1/1 24rfchannel-spa-1
card 1/3 24rfchannel-spa-1
card 1/1 2cable-dtcc
card 5/0 ubr10k-clc-mc2020v license 5X20
card 5/1 ubr10k-clc-mc2020v license 5X20
card 6/0 ubr10k-clc-mc2020v license 5X20
card 6/1 ubr10k-clc-mc2020v license 5X20
card 7/0 ubr10k-clc-mc2020v license 5X20
card 7/1 ubr10k-clc-mc2020v license 5X20
card 8/0 ubr10k-clc-3g60 license 72X60
card 8/1 ubr10k-clc-mc2020v license 5X20
cable admission-control preempt priority-voice
cable flap-list size 8191
```

!

```
cable modem max-cpe 10
cable modulation-profile 22 request 0 16 0 22 qpsk scrambler 152 no-diff 32 fixed
cable modulation-profile 22 initial 5 34 0 48 qpsk scrambler 152 no-diff 64 fixed
```

Configuration

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable modulation-profile 22 station 5 34 0 48 qpsk scrambler 152 no-diff 64 fixed
cable modulation-profile 22 short 3 78 7 22 16qam scrambler 152 no-diff 128 shortened
cable modulation-profile 22 long 9 232 0 22 16qam scrambler 152 no-diff 128 shortened
cable modulation-profile 122 request 0 16 0 22 qpsk scrambler 152 no-diff 32 fixed
cable modulation-profile 122 initial 5 34 0 48 qpsk scrambler 152 no-diff 64 fixed
cable modulation-profile 122 station 5 34 0 48 qpsk scrambler 152 no-diff 64 fixed
cable modulation-profile 122 short 3 78 7 22 16qam scrambler 152 no-diff 128 shortened
cable modulation-profile 122 long 9 232 0 22 16qam scrambler 152 no-diff 128 shortened
cable modulation-profile 122 a-short 3 78 7 22 16qam scrambler 152 no-diff 64 shortened qpsk1 1 20
cable modulation-profile 122 a-long 9 232 0 22 16qam scrambler 152 no-diff 64 shortened qpsk1 1 20
cable modulation-profile 122 a-ugs 9 232 0 22 16qam scrambler 152 no-diff 64 shortened qpsk1 1 2048
cable modulation-profile 124 request 0 16 0 22 qpsk scrambler 152 no-diff 32 fixed
cable modulation-profile 124 initial 5 34 0 48 qpsk scrambler 152 no-diff 64 fixed
cable modulation-profile 124 station 5 34 0 48 qpsk scrambler 152 no-diff 64 fixed
cable modulation-profile 124 short 3 78 7 22 16qam scrambler 152 no-diff 128 shortened
cable modulation-profile 124 long 9 232 0 22 16qam scrambler 152 no-diff 128 shortened
cable modulation-profile 124 a-short 3 78 7 22 64qam scrambler 152 no-diff 128 shortened qpsk1 1 20
cable modulation-profile 124 a-long 9 232 0 22 64qam scrambler 152 no-diff 128 shortened qpsk1 1 20
cable modulation-profile 124 a-ugs 9 232 0 22 16qam scrambler 152 no-diff 128 shortened qpsk1 1 20
cable modulation-profile 222 request 0 16 0 48 qpsk scrambler 152 no-diff 32 fixed qpsk0 1 2048
cable modulation-profile 222 initial 5 34 0 48 qpsk scrambler 152 no-diff 384 fixed qpsk0 1 2048
cable modulation-profile 222 station 5 34 0 48 qpsk scrambler 152 no-diff 384 fixed qpsk0 1 2048
cable modulation-profile 222 a-short 6 76 4 22 16qam scrambler 152 no-diff 64 shortened qpsk1 1 20
cable modulation-profile 222 a-long 9 232 0 22 16qam scrambler 152 no-diff 64 shortened qpsk1 1 20
cable modulation-profile 222 a-ugs 9 232 0 22 16qam scrambler 152 no-diff 64 shortened qpsk1 1 2048
cable modulation-profile 224 request 0 16 0 48 qpsk scrambler 152 no-diff 32 fixed qpsk0 1 2048
cable modulation-profile 224 initial 5 34 0 48 qpsk scrambler 152 no-diff 384 fixed qpsk0 1 2048
cable modulation-profile 224 station 5 34 0 48 qpsk scrambler 152 no-diff 384 fixed qpsk0 1 2048
cable modulation-profile 224 a-short 6 76 4 22 64qam scrambler 152 no-diff 64 shortened qpsk1 1 20
cable modulation-profile 224 a-long 9 232 0 22 64qam scrambler 152 no-diff 64 shortened qpsk1 1 20
no cable qos permission create
no cable qos permission update
cable qos permission modems

!

cable logging badipsource 100000
cable throttle-ranging

!

cable load-balance group 1 dcc-init-technique 1
cable load-balance group 1 threshold load 10 enforce
cable load-balance group 2 dcc-init-technique 1
cable load-balance group 2 threshold load 10 enforce
cable load-balance group 3 dcc-init-technique 1
cable load-balance group 3 threshold load 10 enforce
cable load-balance group 4 dcc-init-technique 1
cable load-balance group 4 threshold load 10 enforce
cable load-balance group 5 dcc-init-technique 1
cable load-balance group 5 threshold load 10 enforce
cable load-balance group 6 dcc-init-technique 1
cable load-balance group 6 threshold load 10 enforce
cable load-balance group 6 policy us-groups-across-ds
cable load-balance group 7 method service-flows
cable load-balance group 7 dcc-init-technique 1
cable load-balance group 7 threshold load 10 enforce
cable load-balance group 7 policy us-groups-across-ds
cable load-balance group 8 dcc-init-technique 1
cable load-balance group 8 threshold load 10 enforce
cable load-balance group 8 policy us-groups-across-ds
cable load-balance group 9 method service-flows
cable load-balance group 9 dcc-init-technique 1
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable load-balance group 9 threshold load 10 enforce
cable load-balance group 9 policy us-groups-across-ds
cable load-balance group 10 dcc-init-technique 1
cable load-balance group 10 threshold load 10 enforce
cable load-balance group 10 policy us-groups-across-ds
cable load-balance group 11 dcc-init-technique 1
cable load-balance group 11 threshold load 10 enforce
cable load-balance group 12 dcc-init-technique 1
cable load-balance group 12 threshold load 10 enforce
cable load-balance group 13 dcc-init-technique 1
cable load-balance group 13 threshold load 10 enforce
cable load-balance group 14 dcc-init-technique 1
cable load-balance group 14 threshold load 10 enforce
cable load-balance group 15 dcc-init-technique 1
cable load-balance group 15 threshold load 10 enforce
cable load-balance group 16 dcc-init-technique 1
cable load-balance group 16 threshold load 10 enforce
cable load-balance group 16 policy us-groups-across-ds
cable load-balance group 17 dcc-init-technique 1
cable load-balance group 17 threshold load 10 enforce
cable load-balance group 17 policy us-groups-across-ds
cable load-balance group 18 dcc-init-technique 1
cable load-balance group 18 threshold load 10 enforce
cable load-balance group 18 policy us-groups-across-ds
cable load-balance group 19 dcc-init-technique 1
cable load-balance group 19 threshold load 10 enforce
cable load-balance group 19 policy us-groups-across-ds
cable load-balance group 20 dcc-init-technique 1
cable load-balance group 20 threshold load 10 enforce
cable load-balance group 20 policy us-groups-across-ds
..
..
cable load-balance group 29 threshold load 10 enforce
cable load-balance group 29 policy us-groups-across-ds
cable load-balance group 30 dcc-init-technique 1
cable load-balance group 30 threshold load 10 enforce
cable load-balance group 30 policy us-groups-across-ds
..
..
..
cable load-balance exclude oui 00.04.E2 strict
cable load-balance exclude oui 00.11.E3 strict
cable clock dti
cable rf-change-trigger percent 50 count 1
cable rf-change-dampen-time 40
cable ds-max-burst

!

cable wideband auto-reset
ip subnet-zero
no ip source-route
no ip ftp passive
ip ftp source-interface Loopback0
ip ftp username xxxxxxxx
ip ftp password 7 xxxxxxxx
no ip domain lookup
ip domain name <domain-name.com>
ip dhcp relay information option

!

ipv6 unicast-routing
```

Configuration

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
ipv6 cef
ipv6 multicast-routing
packetcable timer multimedia T1 200
packetcable multimedia
clns routing
mpls ldp neighbor 66.185.86.145 password 7 94342041C165A4C025A4971040E010
mpls ldp graceful-restart timers forwarding-holding 180
mpls ldp graceful-restart
no mpls ldp advertise-labels
mpls ldp advertise-labels for LDP-PREFIXES-LB100 to LDP-NEIGHBORS-ALL
mpls label protocol ldp

! key xxxxxxxx

key xxxxxxxx
  key-string 7 xxxxxxxx

key xxxxxxxx

key xxxxxxxx
  key-string 7 xxxxxxxx

! username xxxxxxxx ! redundancy

mode sso

! controller Modular-Cable 1/1/0

ip-address 123.123.4.45
modular-host subslot 6/0
rf-channel 0 description <description of RF-channel>
rf-channel 0 cable downstream channel-id 1
rf-channel 0 frequency 591000000 annex B modulation 256qam interleave 32
rf-channel 0 ip-address 123.123.4.46 mac-address 0090.f003.75ba depi-remote-id 37000
rf-channel 1 description <description of RF-channel>
rf-channel 1 cable downstream channel-id 2
rf-channel 1 frequency 597000000 annex B modulation 256qam interleave 32
rf-channel 1 ip-address 123.123.4.46 mac-address 0090.f003.75ba depi-remote-id 37001
rf-channel 2 description <description of RF-channel>
rf-channel 2 cable downstream channel-id 3
rf-channel 2 frequency 603000000 annex B modulation 256qam interleave 32
rf-channel 2 ip-address 123.123.4.46 mac-address 0090.f003.75ba depi-remote-id 37002
rf-channel 3 description <description of RF-channel>
rf-channel 3 cable downstream channel-id 4
rf-channel 3 frequency 591000000 annex B modulation 256qam interleave 32
rf-channel 3 ip-address 123.123.4.46 mac-address 0090.f003.75ba depi-remote-id 37008
rf-channel 4 description <description of RF-channel>
rf-channel 4 cable downstream channel-id 5
rf-channel 4 frequency 597000000 annex B modulation 256qam interleave 32
rf-channel 4 ip-address 123.123.4.46 mac-address 0090.f003.75ba depi-remote-id 37009
rf-channel 5 description <description of RF-channel>
rf-channel 5 cable downstream channel-id 6
rf-channel 5 frequency 603000000 annex B modulation 256qam interleave 32
rf-channel 5 ip-address 123.123.4.46 mac-address 0090.f003.75ba depi-remote-id 37010
rf-channel 6 cable downstream channel-id 7
rf-channel 7 cable downstream channel-id 8
rf-channel 8 cable downstream channel-id 9
rf-channel 9 cable downstream channel-id 10
rf-channel 10 cable downstream channel-id 11
rf-channel 11 cable downstream channel-id 12
rf-channel 12 cable downstream channel-id 13
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
rf-channel 13 cable downstream channel-id 14
rf-channel 14 cable downstream channel-id 15
rf-channel 14 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 14 ip-address 123.123.4.46 mac-address 0090.f003.75ba depi-remote-id 37040
rf-channel 15 cable downstream channel-id 16
rf-channel 15 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 15 ip-address 123.123.4.46 mac-address 0090.f003.75ba depi-remote-id 37041
rf-channel 16 cable downstream channel-id 17
rf-channel 17 cable downstream channel-id 18
rf-channel 17 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 17 ip-address 123.123.4.46 mac-address 0090.f003.75ba depi-remote-id 37056
rf-channel 18 cable downstream channel-id 19
rf-channel 18 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 18 ip-address 123.123.4.46 mac-address 0090.f003.75ba depi-remote-id 37064
rf-channel 19 cable downstream channel-id 20
rf-channel 20 cable downstream channel-id 21
rf-channel 21 cable downstream channel-id 22
rf-channel 22 cable downstream channel-id 23
rf-channel 23 cable downstream channel-id 24
```

### ! controller Modular-Cable 1/3/0

```
ip-address 123.123.4.73
modular-host subslot 7/0
rf-channel 0 description <description of RF-channel>
rf-channel 0 cable downstream channel-id 145
rf-channel 0 frequency 591000000 annex B modulation 256qam interleave 32
rf-channel 0 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39000
rf-channel 1 description <description of RF-channel>
rf-channel 1 cable downstream channel-id 146
rf-channel 1 frequency 597000000 annex B modulation 256qam interleave 32
rf-channel 1 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39001
rf-channel 2 description <description of RF-channel>
rf-channel 2 cable downstream channel-id 147
rf-channel 2 frequency 603000000 annex B modulation 256qam interleave 32
rf-channel 2 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39002
rf-channel 3 cable downstream channel-id 148
rf-channel 3 frequency 591000000 annex B modulation 256qam interleave 32
rf-channel 3 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39008
rf-channel 4 cable downstream channel-id 149
rf-channel 4 frequency 597000000 annex B modulation 256qam interleave 32
rf-channel 4 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39009
rf-channel 5 cable downstream channel-id 150
rf-channel 5 frequency 603000000 annex B modulation 256qam interleave 32
rf-channel 5 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39010
rf-channel 6 cable downstream channel-id 151
rf-channel 6 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 6 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39016
rf-channel 7 cable downstream channel-id 152
rf-channel 7 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 7 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39017
rf-channel 8 cable downstream channel-id 153
rf-channel 8 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 8 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39024
rf-channel 9 cable downstream channel-id 154
rf-channel 9 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 9 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39025
rf-channel 10 cable downstream channel-id 155
rf-channel 10 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 10 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39032
rf-channel 11 cable downstream channel-id 156
rf-channel 11 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 11 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39033
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
rf-channel 12 cable downstream channel-id 157
rf-channel 12 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 12 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39040
rf-channel 13 cable downstream channel-id 158
rf-channel 13 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 13 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39041
rf-channel 14 cable downstream channel-id 159
rf-channel 14 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 14 ip-address 123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39048
rf-channel 15 cable downstream channel-id 160
rf-channel 15 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 15 ip-address 123.123123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39049
rf-channel 16 cable downstream channel-id 161
rf-channel 16 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 16 ip-address 123.123123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39056
rf-channel 17 cable downstream channel-id 162
rf-channel 17 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 17 ip-address 123.123123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39057
rf-channel 18 cable downstream channel-id 163
rf-channel 18 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 18 ip-address 123.123123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39064
rf-channel 19 cable downstream channel-id 164
rf-channel 19 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 19 ip-address 123.123123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39072
rf-channel 20 cable downstream channel-id 165
rf-channel 20 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 20 ip-address 123.123123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39080
rf-channel 21 cable downstream channel-id 166
rf-channel 21 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 21 ip-address 123.123123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39088
rf-channel 22 cable downstream channel-id 167
rf-channel 23 cable downstream channel-id 168
rf-channel 23 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 23 ip-address 123.123123.123.4.74 mac-address 0090.f003.f51c depi-remote-id 39104
description <description for the cable fiber node>
```

### ! controller Integrated-Cable 5/0/0

```
rf-channel 0 cable downstream channel-id 50
rf-channel 0 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
no rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 2
rf-channel 1 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 3
rf-channel 2 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
rf-channel 2 rf-shutdown
rf-channel 3 cable downstream channel-id 4
rf-channel 3 frequency 633000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! controller Integrated-Cable 5/0/1

```
rf-channel 0 cable downstream channel-id 51
rf-channel 0 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
no rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 6
rf-channel 1 frequency 615000000 annex B modulation 256qam interleave 32
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 7
rf-channel 2 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
rf-channel 2 rf-shutdown
rf-channel 3 cable downstream channel-id 8
rf-channel 3 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! controller Integrated-Cable 5/0/2

```
rf-channel 0 cable downstream channel-id 52
rf-channel 0 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
no rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 10
rf-channel 1 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 11
rf-channel 2 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
rf-channel 2 rf-shutdown
rf-channel 3 cable downstream channel-id 12
rf-channel 3 frequency 633000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! controller Integrated-Cable 5/0/3

```
rf-channel 0 cable downstream channel-id 53
rf-channel 0 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
no rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 14
rf-channel 1 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 15
rf-channel 2 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
rf-channel 2 rf-shutdown
rf-channel 3 cable downstream channel-id 16
rf-channel 3 frequency 633000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! controller Integrated-Cable 5/0/4

```
rf-channel 0 cable downstream channel-id 54
rf-channel 0 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
no rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 18
rf-channel 1 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 19
rf-channel 2 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
```



## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
rf-channel 2 rf-shutdown
rf-channel 3 cable downstream channel-id 20
rf-channel 3 frequency 633000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! controller Integrated-Cable 5/1/0

```
rf-channel 0 cable downstream channel-id 55
rf-channel 0 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
no rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 26
rf-channel 1 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 27
rf-channel 2 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
rf-channel 2 rf-shutdown
rf-channel 3 cable downstream channel-id 28
rf-channel 3 frequency 633000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! controller Modular-Cable 8/0/0

```
ip-address 123.123.123.123.2.73
rf-channel 0 cable downstream channel-id 1
rf-channel 1 cable downstream channel-id 2
rf-channel 2 cable downstream channel-id 3
rf-channel 3 description <description of RF-channel>
rf-channel 3 cable downstream channel-id 44
rf-channel 3 frequency 591000000 annex B modulation 256qam interleave 32
rf-channel 3 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39008
rf-channel 4 description <description of RF-channel>
rf-channel 4 cable downstream channel-id 45
rf-channel 4 frequency 597000000 annex B modulation 256qam interleave 32
rf-channel 4 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39009
rf-channel 5 description <description of RF-channel>
rf-channel 5 cable downstream channel-id 46
rf-channel 5 frequency 603000000 annex B modulation 256qam interleave 32
rf-channel 5 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39010
rf-channel 6 cable downstream channel-id 7
rf-channel 7 cable downstream channel-id 8
rf-channel 8 cable downstream channel-id 9
rf-channel 9 cable downstream channel-id 10
rf-channel 10 cable downstream channel-id 11
rf-channel 11 cable downstream channel-id 55
rf-channel 11 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 11 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39080
rf-channel 12 description <description of RF-channel in FN>
rf-channel 12 cable downstream channel-id 56
rf-channel 12 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 12 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39081
rf-channel 13 cable downstream channel-id 14
rf-channel 14 cable downstream channel-id 58
rf-channel 14 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 14 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39088
rf-channel 15 description <description of RF-channel in FN>
rf-channel 15 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 15 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39089
rf-channel 16 cable downstream channel-id 65
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
rf-channel 16 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 16 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39104
rf-channel 17 cable downstream channel-id 66
rf-channel 17 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 17 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39105
rf-channel 18 description <description of RF-channel in FN>
rf-channel 18 frequency 609000000 annex B modulation 256qam interleave 32
rf-channel 18 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39056
rf-channel 19 cable downstream channel-id 63
rf-channel 19 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 19 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39057
rf-channel 20 description <description of RF-channel in FN>
rf-channel 20 cable downstream channel-id 64
rf-channel 20 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 20 ip-address 123.123.2.74 mac-address 0090.f003.f51d depi-remote-id 39058
rf-channel 21 cable downstream channel-id 22
rf-channel 22 cable downstream channel-id 23
rf-channel 23 cable downstream channel-id 24
```

### ! controller Modular-Cable 8/0/1

```
rf-channel 0 cable downstream channel-id 25
rf-channel 1 cable downstream channel-id 26
rf-channel 2 cable downstream channel-id 27
rf-channel 3 cable downstream channel-id 28
rf-channel 4 cable downstream channel-id 29
rf-channel 5 cable downstream channel-id 30
rf-channel 6 cable downstream channel-id 31
rf-channel 7 cable downstream channel-id 32
rf-channel 8 cable downstream channel-id 33
rf-channel 9 cable downstream channel-id 34
rf-channel 10 cable downstream channel-id 35
rf-channel 11 cable downstream channel-id 36
rf-channel 12 cable downstream channel-id 37
rf-channel 13 cable downstream channel-id 38
rf-channel 14 cable downstream channel-id 39
rf-channel 15 cable downstream channel-id 40
rf-channel 16 cable downstream channel-id 41
rf-channel 17 cable downstream channel-id 42
rf-channel 18 cable downstream channel-id 43
rf-channel 19 cable downstream channel-id 44
rf-channel 20 cable downstream channel-id 45
rf-channel 21 cable downstream channel-id 46
rf-channel 22 cable downstream channel-id 47
rf-channel 23 cable downstream channel-id 48
```

### ! controller Modular-Cable 8/0/2

```
rf-channel 0 cable downstream channel-id 49
rf-channel 1 cable downstream channel-id 50
rf-channel 2 cable downstream channel-id 51
rf-channel 3 cable downstream channel-id 52
rf-channel 4 cable downstream channel-id 53
rf-channel 5 cable downstream channel-id 54
rf-channel 6 cable downstream channel-id 55
rf-channel 7 cable downstream channel-id 56
rf-channel 8 cable downstream channel-id 57
rf-channel 9 cable downstream channel-id 58
rf-channel 10 cable downstream channel-id 59
rf-channel 11 cable downstream channel-id 60
rf-channel 12 cable downstream channel-id 61
rf-channel 13 cable downstream channel-id 62
rf-channel 14 cable downstream channel-id 63
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
rf-channel 15 cable downstream channel-id 64
rf-channel 16 cable downstream channel-id 65
rf-channel 17 cable downstream channel-id 66
rf-channel 18 cable downstream channel-id 67
rf-channel 19 cable downstream channel-id 68
rf-channel 20 cable downstream channel-id 69
rf-channel 21 cable downstream channel-id 70
rf-channel 22 cable downstream channel-id 71
rf-channel 23 cable downstream channel-id 72
```

### ! controller Integrated-Cable 8/1/0

```
rf-channel 0 cable downstream channel-id 85
rf-channel 0 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 170
rf-channel 1 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 171
rf-channel 2 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
rf-channel 2 rf-shutdown
rf-channel 3 cable downstream channel-id 172
rf-channel 3 frequency 633000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! controller Integrated-Cable 8/1/1

```
rf-channel 0 cable downstream channel-id 86
rf-channel 0 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 174
rf-channel 1 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 175
rf-channel 2 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
rf-channel 2 rf-shutdown
rf-channel 3 cable downstream channel-id 176
rf-channel 3 frequency 633000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! controller Integrated-Cable 8/1/2

```
rf-channel 0 cable downstream channel-id 87
rf-channel 0 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 178
rf-channel 1 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 179
rf-channel 2 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
rf-channel 2 rf-shutdown
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
rf-channel 3 cable downstream channel-id 180
rf-channel 3 frequency 633000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! controller Integrated-Cable 8/1/3

```
rf-channel 0 cable downstream channel-id 88
rf-channel 0 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 182
rf-channel 1 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 183
rf-channel 2 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
rf-channel 2 rf-shutdown
rf-channel 3 cable downstream channel-id 184
rf-channel 3 frequency 633000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! controller Integrated-Cable 8/1/4

```
rf-channel 0 cable downstream channel-id 89
rf-channel 0 frequency 615000000 annex B modulation 256qam interleave 32
rf-channel 0 rf-power 60.0
rf-channel 0 rf-shutdown
rf-channel 1 cable downstream channel-id 186
rf-channel 1 frequency 621000000 annex B modulation 256qam interleave 32
rf-channel 1 rf-power 60.0
rf-channel 1 rf-shutdown
rf-channel 2 cable downstream channel-id 187
rf-channel 2 frequency 627000000 annex B modulation 256qam interleave 32
rf-channel 2 rf-power 60.0
rf-channel 2 rf-shutdown
rf-channel 3 cable downstream channel-id 188
rf-channel 3 frequency 633000000 annex B modulation 256qam interleave 32
rf-channel 3 rf-power 60.0
rf-channel 3 rf-shutdown
```

### ! interface Loopback0

```
description Router ID
ip address <ip-address><subnet-mask>
ipv6 address <ipv6-address>
ipv6 enable
isis circuit-type level-1
```

### ! interface Loopback100

```
ip address 49.93.245.12 255.255.255.255
```

### ! interface FastEthernet0/0/0

```
description <description for the cable fiber node>
no ip address
shutdown
media-type rj45
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
speed 100
full-duplex
```

### ! interface GigabitEthernet1/0/0

```
ip address 49.93.242.12 255.255.255.252
no ip redirects
no ip proxy-arp
ip ospf message-digest-key 1 md5 7 122B5523421903113E2E36
ip ospf network point-to-point
ip ospf cost 2500
no negotiation auto
ipv6 address 2607:F798:10:2803:0:690:6324:2122/64
ipv6 enable
ipv6 router isis 812
mpls mtu 1512
mpls label protocol ldp
mpls ip
cdp enable
clns enable
isis circuit-type level-1
isis network point-to-point
isis authentication mode md5
isis authentication key-chain ISIS_IPv6
no isis hello padding
isis csnp-interval 10
isis ipv6 metric 2500
```

### ! interface GigabitEthernet1/0/1

```
mtu 4470
ip address 49.93.220.146 255.255.255.252
no ip redirects
no ip proxy-arp
ip ospf message-digest-key 1 md5 7 122B5523421903113E2E36
ip ospf network point-to-point
ip ospf cost 2500
load-interval 30
no negotiation auto
mpls ip
cdp enable
```

### ! interface GigabitEthernet1/0/2

```
no ip address
shutdown
negotiation auto
```

### ! interface GigabitEthernet1/0/3

```
no ip address
shutdown
negotiation auto
```

### ! interface GigabitEthernet1/0/4

```
no ip address
shutdown
negotiation auto
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
! interface GigabitEthernet1/1/0

no ip address
negotiation auto
output-rate 10000

! interface Modular-Cable1/1/0:12

shutdown
cable rf-bandwidth-percent 96

! interface Modular-Cable1/1/0:13

shutdown
cable rf-bandwidth-percent 96

! interface Modular-Cable1/1/0:14

cable bundle 6
cable rf-bandwidth-percent 96

! interface Modular-Cable1/1/0:15

cable bundle 6
cable rf-bandwidth-percent 96

! interface Modular-Cable1/1/0:16

shutdown
cable rf-bandwidth-percent 96

! interface Modular-Cable1/1/0:17

cable bundle 6
cable rf-bandwidth-percent 96

! interface Modular-Cable1/1/0:18

cable bundle 6
cable rf-bandwidth-percent 96

! interface Wideband-Cable1/1/0:0

cable bundle 5
cable rf-channel 0
cable rf-channel 1
cable rf-channel 2

! interface Wideband-Cable1/1/0:1

cable bundle 6
cable rf-channel 3
cable rf-channel 4
cable rf-channel 5

! interface GigabitEthernet1/3/0
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
no ip address
negotiation auto
output-rate 10000
```

```
! interface Modular-Cable1/3/0:6
```

```
cable bundle 7
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable1/3/0:7
```

```
cable bundle 7
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable1/3/0:8
```

```
cable bundle 7
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable1/3/0:9
```

```
cable bundle 7
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable1/3/0:10
```

```
cable bundle 7
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable1/3/0:11
```

```
cable bundle 7
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable1/3/0:12
```

```
cable bundle 7
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable1/3/0:13
```

```
cable bundle 7
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable1/3/0:14
```

```
cable bundle 7
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable1/3/0:15
```

```
cable bundle 7
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable1/3/0:16
```

```
shutdown
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable bundle 8
cable rf-bandwidth-percent 96

! interface Modular-Cable1/3/0:17

shutdown
cable bundle 8
cable rf-bandwidth-percent 96

! interface Modular-Cable1/3/0:18

cable bundle 7
cable rf-bandwidth-percent 96

! interface Modular-Cable1/3/0:19

cable bundle 7
cable rf-bandwidth-percent 96

! interface Modular-Cable1/3/0:20

shutdown
cable bundle 8
cable rf-bandwidth-percent 96

! interface Modular-Cable1/3/0:21

shutdown
cable bundle 8
cable rf-bandwidth-percent 96

! interface Modular-Cable1/3/0:23

shutdown
cable bundle 8
cable rf-bandwidth-percent 96

! interface Wideband-Cable1/3/0:0

cable bundle 7
cable rf-channel 0
cable rf-channel 1
cable rf-channel 2

! interface Wideband-Cable1/3/0:1

shutdown
cable bundle 8
cable rf-channel 3
cable rf-channel 4
cable rf-channel 5

! interface Cable5/0/0

downstream Integrated-Cable 5/0/0 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
```



## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable bundle 5
cable upstream max-ports 4
cable upstream 0 connector 0
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 1
cable upstream 1 frequency 31296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 3
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 2
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 2
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 3
cable upstream 3 frequency 31296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 4
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 9
no keepalive
```

### ! interface Cable5/0/1

```
downstream Integrated-Cable 5/0/1 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 5
cable upstream max-ports 4
cable upstream 0 connector 4
cable upstream 0 frequency 25296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 5
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 3
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 6
cable upstream 2 frequency 25296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 2
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 7
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 4
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 9
no keepalive
```

### ! interface Cable5/0/2

```
downstream Integrated-Cable 5/0/2 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 5
cable upstream max-ports 4
cable upstream 0 connector 8
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 9
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 1
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 10
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 11
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable5/0/3

```
description no ip address
downstream Integrated-Cable 5/0/3 rf-channel 0
cable tftp-enforce
```

### cable dynamic-secret reject

```
no cable packet-cache
cable bundle 5
cable upstream max-ports 4
cable upstream 0 connector 12
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 13
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 14
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 15
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable5/0/4

```
downstream Integrated-Cable 5/0/4 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 5
cable upstream max-ports 4
cable upstream 0 connector 16
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 17
cable upstream 1 frequency 31296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 18
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 19
cable upstream 3 frequency 31296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Integrated-Cable5/0/0:0

```
cable bundle 5
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable rf-bandwidth-percent 96

! interface Integrated-Cable5/0/1:0

cable bundle 5
cable rf-bandwidth-percent 96

! interface Integrated-Cable5/0/2:0

cable bundle 5
cable rf-bandwidth-percent 96

! interface Integrated-Cable5/0/3:0

cable bundle 5
cable rf-bandwidth-percent 96

! interface Integrated-Cable5/0/4:0

cable bundle 5
cable rf-bandwidth-percent 96

! interface Cable5/1/0

downstream Integrated-Cable 5/1/0 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 5
cable upstream max-ports 4
cable upstream 0 connector 0
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 11
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 1
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 11
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 2
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 3
cable upstream 3 frequency 31296000
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 20
no keepalive
```

### ! interface Cable5/1/1

```
downstream Integrated-Cable 5/1/1 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 5
cable upstream max-ports 4
cable upstream 0 connector 4
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 11
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 5
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 11
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 6
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 7
cable upstream 3 frequency 31296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 19
no keepalive
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

### ! interface Cable5/1/2

```
downstream Integrated-Cable 5/1/2 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 5
cable upstream max-ports 4
cable upstream 0 connector 8
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 11
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 9
cable upstream 1 frequency 31296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 13
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 10
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 12
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 11
cable upstream 3 frequency 31296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 14
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 17
no keepalive
```

### ! interface Cable5/1/3

```
downstream Integrated-Cable 5/1/3 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 5
cable upstream max-ports 4
cable upstream 0 connector 12
cable upstream 0 frequency 25296000
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 11
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 13
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 13
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 14
cable upstream 2 frequency 25296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 12
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 15
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 14
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 17
no keepalive
```

### ! interface Cable5/1/4

```
downstream Integrated-Cable 5/1/4 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 5
cable upstream max-ports 4
cable upstream 0 connector 16
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 11
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 17
cable upstream 1 frequency 25296000
```



## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 11
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 18
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 19
cable upstream 3 frequency 31296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### **! interface Integrated-Cable5/1/0:0**

```
cable bundle 5
cable rf-bandwidth-percent 96
```

### **! interface Integrated-Cable5/1/1:0**

```
cable bundle 5
cable rf-bandwidth-percent 96
```

### **! interface Integrated-Cable5/1/2:0**

```
cable bundle 5
cable rf-bandwidth-percent 96
```

### **! interface Integrated-Cable5/1/3:0**

```
cable bundle 5
cable rf-bandwidth-percent 96
```

### **! interface Integrated-Cable5/1/4:0**

```
cable bundle 5
cable rf-bandwidth-percent 96
```

### **! interface Cable6/0/0**

```
downstream Integrated-Cable 6/0/0 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
no cable packet-cache
cable bundle 6
cable upstream max-ports 4
cable upstream 0 connector 0
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 21
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 1
cable upstream 1 frequency 31296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 23
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 2
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 22
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 3
cable upstream 3 frequency 31296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 24
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 29
no keepalive
```

### **! interface Cable6/0/1**

```
downstream Integrated-Cable 6/0/1 rf-channel 0
cable tftp-enforce
```

### **cable dynamic-secret reject**

```
no cable packet-cache
cable bundle 6
cable upstream max-ports 4
cable upstream 0 connector 4
cable upstream 0 frequency 25296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 21
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 5
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 23
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
cable upstream 1 shutdown
cable upstream 2 connector 6
cable upstream 2 frequency 25296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 22
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 7
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 24
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 29
no keepalive
```

### ! interface Cable6/0/2

```
downstream Modular-Cable 1/1/0 rf-channel 14-15 upstream 0-3
downstream Integrated-Cable 6/0/2 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 6
cable upstream max-ports 4
cable upstream 0 connector 8
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 21
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 9
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 1 load-balance group 21
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 10
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 22
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 11
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 22
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 28
no keepalive
```

### ! interface Cable6/0/3

```
downstream Integrated-Cable 6/0/3 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 6
cable upstream max-ports 4
cable upstream 0 connector 12
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 21
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 13
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 21
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 14
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 15
cable upstream 3 frequency 31296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable6/0/4

```
downstream Modular-Cable 1/1/0 rf-channel 18 upstream 0-1
downstream Integrated-Cable 6/0/4 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 6
cable upstream max-ports 4
cable upstream 0 connector 16
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 21
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 17
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 21
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 18
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 22
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 19
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 22
cable upstream 3 docsis-mode tdma-atdma
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 26
no keepalive
```

### ! interface Integrated-Cable6/0/0:0

```
cable bundle 6
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable6/0/1:0

```
cable bundle 6
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable6/0/2:0

```
cable bundle 6
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable6/0/3:0

```
cable bundle 6
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable6/0/4:0

```
cable bundle 6
cable rf-bandwidth-percent 96
```

### ! interface Cable6/1/0

```
downstream Integrated-Cable 6/1/0 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 6
cable upstream max-ports 4
cable upstream 0 connector 0
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 31
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 1
cable upstream 1 frequency 31296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 33
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 2
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 32
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 3
cable upstream 3 frequency 31296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 34
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 39
no keepalive
```

### ! interface Cable6/1/1

```
downstream Integrated-Cable 6/1/1 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 6
cable upstream max-ports 4
cable upstream 0 connector 4
cable upstream 0 frequency 25296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 31
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 5
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 33
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
cable upstream 1 shutdown
cable upstream 2 connector 6
cable upstream 2 frequency 25296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 32
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 7
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 34
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 39
no keepalive
```

### ! interface Cable6/1/2

```
downstream Integrated-Cable 6/1/2 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 6
cable upstream max-ports 4
cable upstream 0 connector 8
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 31
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 9
cable upstream 1 frequency 31296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 33
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 10
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 32
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 11
cable upstream 3 frequency 31296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 34
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
```



## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 37
no keepalive
```

### ! interface Cable6/1/3

```
downstream Integrated-Cable 6/1/3 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 6
cable upstream max-ports 4
cable upstream 0 connector 12
cable upstream 0 frequency 25296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 31
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 13
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 33
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
cable upstream 1 shutdown
cable upstream 2 connector 14
cable upstream 2 frequency 25296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 32
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 15
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 34
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 37
no keepalive
```

### ! interface Cable6/1/4

```
downstream Modular-Cable 1/1/0 rf-channel 17 upstream 0-3
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
downstream Integrated-Cable 6/1/4 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 6
cable upstream max-ports 4
cable upstream 0 connector 16
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 31
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 17
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 31
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 18
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 32
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 19
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 32
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 36
no keepalive
```

```
! interface Integrated-Cable6/1/0:0
```

```
cable bundle 6
cable rf-bandwidth-percent 96
```

```
! interface Integrated-Cable6/1/1:0
```

```
cable bundle 6
cable rf-bandwidth-percent 96
```

```
! interface Integrated-Cable6/1/2:0
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable bundle 6
cable rf-bandwidth-percent 96

! interface Integrated-Cable6/1/3:0

cable bundle 6
cable rf-bandwidth-percent 96

! interface Integrated-Cable6/1/4:0

cable bundle 6
cable rf-bandwidth-percent 96

! interface Cable7/0/0

downstream Modular-Cable 1/3/0 rf-channel 8-9 upstream 0-3
downstream Integrated-Cable 7/0/0 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 7
cable upstream max-ports 4
cable upstream 0 connector 0
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 41
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 1
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 43
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 2
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 42
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 3
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 44
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 50
no keepalive
```

### ! interface Cable7/0/1

```
downstream Integrated-Cable 7/0/1 rf-channel 0
cable tftp-enforce
```

### cable dynamic-secret reject

```
no cable packet-cache
cable bundle 7
cable upstream max-ports 4
cable upstream 0 connector 4
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 5
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 6
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 7
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable7/0/2

```
downstream Modular-Cable 1/3/0 rf-channel 10-11 upstream 0-3
downstream Integrated-Cable 7/0/2 rf-channel 0
cable tftp-enforce
```

```
cable dynamic-secret reject
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
no cable packet-cache
cable bundle 7
cable upstream max-ports 4
cable upstream 0 connector 8
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 41
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 9
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 41
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 10
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 42
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 11
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 42
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 48
no keepalive
```

### ! interface Cable7/0/3

```
downstream Integrated-Cable 7/0/3 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 7
cable upstream max-ports 4
cable upstream 0 connector 12
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 13
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
cable upstream 1 shutdown
cable upstream 2 connector 14
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 15
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable7/0/4

```
downstream Modular-Cable 1/3/0 rf-channel 14-15 upstream 0-3
downstream Integrated-Cable 7/0/4 rf-channel 0
cable tftp-enforce
```

```
cable dynamic-secret reject
no cable packet-cache
cable bundle 7
cable upstream max-ports 4
cable upstream 0 connector 16
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 41
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 17
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 41
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 2 connector 18
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 42
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 19
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 42
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 46
no keepalive
```

### **! interface Integrated-Cable7/0/0:0**

```
cable bundle 7
cable rf-bandwidth-percent 96
```

### **! interface Integrated-Cable7/0/1:0**

```
shutdown
cable bundle 7
cable rf-bandwidth-percent 96
```

### **! interface Integrated-Cable7/0/2:0**

```
cable bundle 7
cable rf-bandwidth-percent 96
```

### **! interface Integrated-Cable7/0/3:0**

```
shutdown
cable bundle 7
cable rf-bandwidth-percent 96
```

### **! interface Integrated-Cable7/0/4:0**

```
cable bundle 7
cable rf-bandwidth-percent 96
```

### **! interface Cable7/1/0**

```
downstream Modular-Cable 1/3/0 rf-channel 18 upstream 0-1
downstream Integrated-Cable 7/1/0 rf-channel 0
cable tftp-enforce
```

```
cable dynamic-secret reject
no cable packet-cache
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable bundle 7
cable upstream max-ports 4
cable upstream 0 connector 0
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 51
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 1
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 51
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 2
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 3
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 60
no keepalive
```

### ! interface Cable7/1/1

```
downstream Integrated-Cable 7/1/1 rf-channel 0
cable tftp-enforce
```

```
cable dynamic-secret reject
no cable packet-cache
cable bundle 7
cable upstream max-ports 4
cable upstream 0 connector 4
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 51
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
```



## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
no cable upstream 0 shutdown
cable upstream 1 connector 5
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 53
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
cable upstream 1 shutdown
cable upstream 2 connector 6
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 shutdown
cable upstream 3 connector 7
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable7/1/2

```
downstream Modular-Cable 1/3/0 rf-channel 6-7 upstream 0-3
downstream Integrated-Cable 7/1/2 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 7
cable upstream max-ports 4
cable upstream 0 connector 8
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 51
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 9
cable upstream 1 frequency 31296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 53
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 10
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 52
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 11
cable upstream 3 frequency 31296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 54
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 58
no keepalive
```

### ! interface Cable7/1/3

```
downstream Modular-Cable 1/3/0 rf-channel 12-13 upstream 0-3
downstream Integrated-Cable 7/1/3 rf-channel 0
cable tftp-enforce
```

```
cable dynamic-secret reject
no cable packet-cache
cable bundle 7
cable upstream max-ports 4
cable upstream 0 connector 12
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 51
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 13
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 51
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 14
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 52
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
no cable upstream 2 shutdown
cable upstream 3 connector 15
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 52
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 57
no keepalive
```

### ! interface Cable7/1/4

```
downstream Modular-Cable 1/3/0 rf-channel 19 upstream 0-3
downstream Integrated-Cable 7/1/4 rf-channel 0
cable tftp-enforce
```

```
cable dynamic-secret reject
no cable packet-cache
cable bundle 7
cable upstream max-ports 4
cable upstream 0 connector 16
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 51
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 17
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 51
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 18
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 52
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
no cable upstream 2 shutdown
cable upstream 3 connector 19
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 52
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
no cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 56
no keepalive
```

### ! interface Integrated-Cable7/1/0:0

```
cable bundle 7
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable7/1/1:0

```
shutdown
cable bundle 7
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable7/1/2:0

```
cable bundle 7
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable7/1/3:0

```
cable bundle 7
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable7/1/4:0

```
cable bundle 7
cable rf-bandwidth-percent 96
```

### ! interface Cable8/0/0

```
description version 3.2
downstream Modular-Cable 8/0/0 rf-channel 11-12 upstream 0-1
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 8
cable upstream max-ports 4
cable upstream 0 connector 0
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 71
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 1
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 71
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 2
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 shutdown
cable upstream 3 connector 3
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 80
no keepalive
```

### ! interface Cable8/0/1

```
description version 3.2
shutdown
cable tftp-enforce

cable dynamic-secret reject
no cable packet-cache
cable bundle 8
cable upstream max-ports 4
cable upstream 0 connector 4
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
cable upstream 0 shutdown
cable upstream 1 connector 5
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
cable upstream 1 shutdown
cable upstream 2 connector 6
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 shutdown
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 3 connector 7
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable8/0/2

```
description version 3.2
downstream Modular-Cable 8/0/0 rf-channel 14-15 upstream 0-1
cable tftp-enforce
```

```
cable dynamic-secret reject
no cable packet-cache
cable bundle 8
cable upstream max-ports 4
cable upstream 0 connector 8
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 71
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 9
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 71
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 10
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 shutdown
cable upstream 3 connector 11
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable load-balance group 78
no keepalive
```

### ! interface Cable8/0/3

```
description version 3.2
downstream Modular-Cable 8/0/0 rf-channel 16-17 upstream 0-3
cable tftp-enforce
cable mtc-mode
cable dynamic-secret reject
no cable packet-cache
cable default-phy-burst 0
cable map-advance dynamic 500 1800
cable bundle 8
cable upstream max-ports 4
cable upstream bonding-group 1
  upstream 0
  upstream 1
  attributes 80000000
cable upstream bonding-group 2
  upstream 2
  upstream 3
  attributes 80000000
cable upstream 0 connector 12
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 71
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 13
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 71
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 14
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 72
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 equalization-coefficient
no cable upstream 2 shutdown
cable upstream 3 connector 15
cable upstream 3 frequency 23700000
cable upstream 3 channel-width 6400000 6400000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 72
cable upstream 3 docsis-mode atdma
cable upstream 3 minislot-size 1
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 224
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 3 equalization-coefficient
no cable upstream 3 shutdown
cable sid-cluster-group num-of-cluster 2
cable sid-cluster-switching max-request 4
cable sid-cluster-switching max-outstanding-byte 0
cable sid-cluster-switching max-total-byte 0
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 77
no keepalive
```

### ! interface Cable8/0/4

```
description version 3.2
downstream Modular-Cable 8/0/0 rf-channel 18-20 upstream 0-1
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 8
cable upstream max-ports 4
cable upstream 0 connector 16
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 load-balance group 71
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
no cable upstream 0 shutdown
cable upstream 1 connector 17
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 load-balance group 71
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
no cable upstream 1 shutdown
cable upstream 2 connector 18
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 load-balance group 72
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 shutdown
cable upstream 3 connector 19
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 load-balance group 72
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
cable load-balance group 76
```



## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
no keepalive
```

### **! interface Cable8/0/5**

```
shutdown  
no cable packet-cache  
cable bundle 8  
cable upstream max-ports 0
```

### **! interface Cable8/0/6**

```
shutdown  
no cable packet-cache  
cable bundle 8  
cable upstream max-ports 0
```

### **! interface Cable8/0/7**

```
shutdown  
no cable packet-cache  
cable bundle 8  
cable upstream max-ports 0
```

### **! interface Cable8/0/8**

```
shutdown  
no cable packet-cache  
cable bundle 8  
cable upstream max-ports 0
```

### **! interface Cable8/0/9**

```
shutdown  
no cable packet-cache  
cable bundle 8  
cable upstream max-ports 0
```

### **! interface Cable8/0/10**

```
shutdown  
no cable packet-cache  
cable bundle 8  
cable upstream max-ports 0
```

### **! interface Cable8/0/11**

```
shutdown  
no cable packet-cache  
cable bundle 8  
cable upstream max-ports 0
```

### **! interface Cable8/0/12**

```
shutdown  
no cable packet-cache  
cable bundle 8  
cable upstream max-ports 0
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

### ! interface Cable8/0/13

```
shutdown
no cable packet-cache
cable bundle 8
cable upstream max-ports 0
```

### ! interface Cable8/0/14

```
shutdown
no cable packet-cache
cable bundle 8
cable upstream max-ports 0
```

### ! interface GigabitEthernet8/0/0

```
no ip address
negotiation auto
output-rate 10000
```

### ! interface GigabitEthernet8/0/2

```
no ip address
shutdown
negotiation auto
output-rate 10000
```

### ! interface GigabitEthernet8/0/4

```
no ip address
shutdown
negotiation auto
output-rate 10000
```

### ! interface Modular-Cable8/0/0:11

```
cable bundle 8
cable rf-bandwidth-percent 96
```

### ! interface Modular-Cable8/0/0:12

```
cable bundle 8
cable rf-bandwidth-percent 96
```

### ! interface Modular-Cable8/0/0:14

```
cable bundle 8
cable rf-bandwidth-percent 96
```

### ! interface Modular-Cable8/0/0:15

```
cable bundle 8
cable rf-bandwidth-percent 96
```

### ! interface Modular-Cable8/0/0:16

```
cable bundle 8
cable rf-bandwidth-percent 96
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
! interface Modular-Cable8/0/0:17
```

```
cable bundle 8  
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable8/0/0:18
```

```
cable bundle 8  
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable8/0/0:19
```

```
cable bundle 8  
cable rf-bandwidth-percent 96
```

```
! interface Modular-Cable8/0/0:20
```

```
cable bundle 8  
cable rf-bandwidth-percent 96
```

```
! interface Wideband-Cable8/0/0:0
```

```
description <description for the cable fiber node>  
cable bundle 8  
cable rf-channel 3  
cable rf-channel 4  
cable rf-channel 5
```

```
! interface Cable8/1/0
```

```
shutdown  
downstream Modular-Cable 1/3/0 rf-channel 20 upstream 0-1  
downstream Integrated-Cable 8/1/0 rf-channel 0  
cable tftp-enforce  
cable dynamic-secret reject  
no cable packet-cache  
cable bundle 8  
cable upstream max-ports 4  
cable upstream 0 connector 0  
cable upstream 0 frequency 31296000  
cable upstream 0 channel-width 3200000 3200000  
cable upstream 0 power-level 1  
cable upstream 0 docsis-mode tdma-atdma  
cable upstream 0 minislot-size 2  
cable upstream 0 range-backoff 3 6  
cable upstream 0 modulation-profile 122  
cable upstream 0 shutdown  
cable upstream 1 connector 1  
cable upstream 1 frequency 25296000  
cable upstream 1 channel-width 3200000 3200000  
cable upstream 1 power-level 1  
cable upstream 1 docsis-mode tdma-atdma  
cable upstream 1 minislot-size 2  
cable upstream 1 range-backoff 3 6  
cable upstream 1 modulation-profile 122  
cable upstream 1 shutdown  
cable upstream 2 connector 2  
cable upstream 2 frequency 31296000  
cable upstream 2 channel-width 3200000 3200000  
cable upstream 2 power-level 1
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 shutdown
cable upstream 3 connector 3
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable8/1/1

```
shutdown
downstream Integrated-Cable 8/1/1 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 8
cable upstream max-ports 4
cable upstream 0 connector 4
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
cable upstream 0 shutdown
cable upstream 1 connector 5
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
cable upstream 1 shutdown
cable upstream 2 connector 6
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 shutdown
cable upstream 3 connector 7
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable8/1/2

```
shutdown
downstream Modular-Cable 1/3/0 rf-channel 21 upstream 0-1
downstream Integrated-Cable 8/1/2 rf-channel 0
cable tftp-enforce
cable dynamic-secret reject
no cable packet-cache
cable bundle 8
cable upstream max-ports 4
cable upstream 0 connector 8
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislot-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
cable upstream 0 shutdown
cable upstream 1 connector 9
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
cable upstream 1 shutdown
cable upstream 2 connector 10
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 shutdown
cable upstream 3 connector 11
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable8/1/3

```
shutdown
downstream Modular-Cable 1/3/0 rf-channel 23 upstream 0-3
downstream Integrated-Cable 8/1/3 rf-channel 0
cable tftp-enforce

cable dynamic-secret reject
no cable packet-cache
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable bundle 8
cable upstream max-ports 4
cable upstream 0 connector 12
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
cable upstream 0 shutdown
cable upstream 1 connector 13
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislots-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
cable upstream 1 shutdown
cable upstream 2 connector 14
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislots-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 shutdown
cable upstream 3 connector 15
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislots-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Cable8/1/4

```
shutdown
downstream Modular-Cable 1/3/0 rf-channel 16-17 upstream 0-1
downstream Integrated-Cable 8/1/4 rf-channel 0
cable tftp-enforce
```

```
cable dynamic-secret reject
no cable packet-cache
cable bundle 8
cable upstream max-ports 4
cable upstream 0 connector 16
cable upstream 0 frequency 31296000
cable upstream 0 channel-width 3200000 3200000
cable upstream 0 power-level 1
cable upstream 0 docsis-mode tdma-atdma
cable upstream 0 minislots-size 2
cable upstream 0 range-backoff 3 6
cable upstream 0 modulation-profile 122
cable upstream 0 shutdown
cable upstream 1 connector 17
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
cable upstream 1 frequency 25296000
cable upstream 1 channel-width 3200000 3200000
cable upstream 1 power-level 1
cable upstream 1 docsis-mode tdma-atdma
cable upstream 1 minislot-size 2
cable upstream 1 range-backoff 3 6
cable upstream 1 modulation-profile 122
cable upstream 1 shutdown
cable upstream 2 connector 18
cable upstream 2 frequency 31296000
cable upstream 2 channel-width 3200000 3200000
cable upstream 2 power-level 1
cable upstream 2 docsis-mode tdma-atdma
cable upstream 2 minislot-size 2
cable upstream 2 range-backoff 3 6
cable upstream 2 modulation-profile 122
cable upstream 2 shutdown
cable upstream 3 connector 19
cable upstream 3 frequency 25296000
cable upstream 3 channel-width 3200000 3200000
cable upstream 3 power-level 1
cable upstream 3 docsis-mode tdma-atdma
cable upstream 3 minislot-size 2
cable upstream 3 range-backoff 3 6
cable upstream 3 modulation-profile 122
cable upstream 3 shutdown
cable privacy mandatory
cable privacy bpi-plus-policy total-enforcement
no keepalive
```

### ! interface Integrated-Cable8/1/0:0

```
shutdown
cable bundle 8
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable8/1/1:0

```
shutdown
cable bundle 8
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable8/1/2:0

```
shutdown
cable bundle 8
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable8/1/3:0

```
shutdown
cable bundle 8
cable rf-bandwidth-percent 96
```

### ! interface Integrated-Cable8/1/4:0

```
shutdown
cable bundle 8
cable rf-bandwidth-percent 96
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

### ! interface Bundle5

```
no ip address
cable arp filter request-send 3 2
cable arp filter reply-accept 3 2
cable source-verify leasequery-filter upstream 2 5
```

### ! interface Bundle5.1

```
ip address 140.22.220.1 255.255.254.0 secondary
ip address 110.170.16.129 255.255.255.128 secondary
ip address 110.20.112.129 255.255.255.128 secondary
ip address 110.22.142.129 255.255.255.128 secondary
ip address 110.190.96.1 255.255.252.0 secondary
ip address 12.12.99.1 255.255.254.0 secondary
ip address 12.12.144.1 255.255.254.0 secondary
ip address 12.12.160.1 255.255.254.0 secondary
ip address 40.50.60.1 255.255.252.0 secondary
ip address 40.50.240.1 255.255.252.0 secondary
ip address 40.50.8.1 255.255.255.240 secondary
ip address 40.50.184.1 255.255.252.0
ip access-group security_block_in in
ip access-group security_port_block out
ip verify unicast reverse-path
no ip redirects
no ip proxy-arp
ip rip authentication mode md5
ip rip authentication key-chain rip-key
no cable arp
cable source-verify dhcp
cable dhcp-giaddr policy
cable helper-address 60.80.246.55
cable helper-address 60.80.246.183
```

### !! no ipv6 redirects

```
ipv6 dhcp relay destination 2607:F798:14:580:0:640:7124:6055
ipv6 dhcp relay destination 2607:F798:14:400:0:640:7124:6183
```

### ! router ospf 812

```
router-id 69.63.244.22
log-adjacency-changes
auto-cost reference-bandwidth 500000
nsf ietf
area 0.0.0.0 authentication message-digest
passive-interface default
no passive-interface GigabitEthernet1/0/0
network <network-address> area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
```



## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
network <network-address>area 0.0.0.0
```

### ! router isis 812

```
net 03.9013.0690.6324.4022.00
is-type level-1
metric-style wide
fast-flood 15
max-lsp-lifetime 65535
lsp-refresh-interval 65000
lsp-gen-interval 10 20 200
log-adjacency-changes all
nsf ietf
passive-interface Loopback0
!
address-family ipv6
  multi-topology
  spf-interval 2 50 200
  prc-interval 2 50 200
  maximum-paths 8
exit-address-family
```

### ! router rip

```
version 2
passive-interface default
network <network-address>
network <network-address>
distribute-list prefix MAN_RTR_CIDR in
no auto-summary
```

### ! router bgp 812

```
bgp router-id <router-address>
bgp log-neighbor-changes
neighbor RR peer-group
neighbor RR remote-as 812
neighbor RR password 7 xxxxxxxx
neighbor RR update-source Loopback0
neighbor RR version 4
neighbor IPV6_RR peer-group
neighbor IPV6_RR remote-as 812
neighbor IPV6_RR password 7 xxxxxxxx
neighbor IPV6_RR update-source Loopback0
neighbor 2001:506:20:7FC0:0:661:8508:6145 peer-group IPV6_RR
neighbor <neighbor-address>peer-group RR
neighbor <neighbor-address>peer-group RR
```

!

```
address-family ipv4
  no synchronization
  redistribute connected
  redistribute static
  redistribute rip
  neighbor RR send-community
  neighbor RR next-hop-self
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
neighbor 2001:506:20:7FC0:0:661:8508:6145 activate
neighbor 66.185.94.109 activate
neighbor 66.185.94.110 activate
no auto-summary
exit-address-family
```

!

```
address-family vpnv4
neighbor RR send-community extended
neighbor <neighbor-address>activate
neighbor <neighbor-address>activate
exit-address-family
```

!

```
address-family ipv6
redistribute connected route-map SINGLE_HOME_CMTS
no synchronization
neighbor IPV6_RR send-community both
neighbor IPV6_RR next-hop-self
neighbor 2001:506:20:7FC0:0:661:8508:6145 activate
exit-address-family
```

!

```
ip classless
no ip forward-protocol udp tftp
no ip forward-protocol udp nameserver
no ip forward-protocol udp domain
no ip forward-protocol udp time
no ip forward-protocol udp netbios-ns
no ip forward-protocol udp netbios-dgm
no ip forward-protocol udp tacacs
```

!

```
no ip http server
no ip http secure-server
ip tacacs source-interface Loopback0
```

!

```
ip prefix-list MAN_RTR_CIDR seq 5 deny 0.0.0.0/0
ip prefix-list MAN_RTR_CIDR seq 10 permit <ip-address>/19 ge 29 le 30
ip prefix-list MAN_RTR_CIDR seq 15 permit <ip-address>/18 ge 29 le 30
ip prefix-list MAN_RTR_CIDR seq 20 permit <ip-address>/17 ge 29 le 30
ip prefix-list MAN_RTR_CIDR seq 25 permit <ip-address>0/20 ge 29 le 30
ip prefix-list MAN_RTR_CIDR seq 30 permit <ip-address>/19 ge 29 le 30
ip prefix-list MAN_RTR_CIDR seq 35 permit <ip-address>/18 ge 29 le 30
```

**! ip access-list standard LDP-NEIGHBORS-ALL**

```
permit <ip-address><subnet-mask>
permit <ip-address><subnet-mask>
permit <ip-address><subnet-mask>
permit <ip-address><subnet-mask>
```

**ip access-list standard LDP-PREFIXES-LB100**

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
permit <ip-address><subnet-mask>  
permit <ip-address><subnet-mask>  
permit <ip-address><subnet-mask>  
permit <ip-address><subnet-mask>
```

### ip access-list standard RCBIN\_VTY

```
permit <ip-address><subnet-mask>  
permit <ip-address><subnet-mask>  
permit <ip-address><subnet-mask>  
permit <ip-address><subnet-mask>  
deny any
```

### ip access-list standard TapACL

```
permit <ip-address><subnet-mask>  
permit <ip-address><subnet-mask>
```

### ! ip access-list extended security\_block\_in

```
remark Inbound security mitigation  
deny tcp any <ip-address><subnet-mask>eq telnet  
deny tcp any <ip-address><subnet-mask>eq 22  
deny udp any <ip-address><subnet-mask>eq snmp  
deny tcp any <ip-address><subnet-mask>eq telnet  
deny tcp any <ip-address><subnet-mask>eq 22  
deny udp any <ip-address><subnet-mask>eq snmp  
deny tcp any <ip-address><subnet-mask>eq telnet  
deny tcp any <ip-address><subnet-mask>eq 22  
deny udp any <ip-address><subnet-mask>eq snmp  
deny tcp any <ip-address><subnet-mask>eq telnet  
deny tcp any <ip-address><subnet-mask>eq 22  
deny udp any <ip-address><subnet-mask>eq snmp  
deny 53 any any  
deny 55 any any  
deny 77 any any  
deny pim any any  
permit ip any any
```

### ip access-list extended security\_port\_block

```
deny tcp any any eq 135  
deny tcp any any eq 445  
deny udp any any eq 135  
deny udp any any eq 445  
permit ip any any  
logging linecard critical  
logging cmts cr10k log-level errors  
logging cmts sea syslog-level errors  
logging facility local3  
logging source-interface Loopback0  
logging 66.185.88.10  
access-list 8 permit <ip-address>  
access-list 8 permit <ip-address>  
access-list 8 permit <ip-address>  
access-list 8 permit <ip-address><subnet-mask>  
access-list 8 deny any  
access-list 18 permit <ip-address>  
access-list 18 permit <ip-address>  
access-list 18 deny any  
access-list 41 permit <ip-address>
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
access-list 41 permit <ip-address>
access-list 41 permit <ip-address><subnet-mask>
access-list 41 permit <ip-address><subnet-mask>
access-list 41 permit <ip-address><subnet-mask>
access-list 41 deny any
access-list 66 deny any
access-list 81 permit <ip-address>
access-list 81 permit <ip-address>
access-list 99 permit <ip-address><subnet-mask>
access-list 99 permit <ip-address><subnet-mask>
access-list 99 permit <ip-address><subnet-mask>
access-list 99 permit <ip-address><subnet-mask>
access-list 99 permit <ip-address><subnet-mask>
cpd cr-id 1
nls resp-timeout 1
cdp run
```

```
! route-map SINGLE_HOME_CMTS permit 10
```

```
set community 53216334 53216445 53224532 additive
```

```
!
```

```
tacacs-server host <ip-address> key 7 xxxxxxxx
tacacs-server host <ip-address>key 7 xxxxxxxx
snmp-server community xxxxxxxx RO 66
snmp-server community xxxxxxxx RO 41
snmp-server community xxxxxxxx RO 41
snmp-server community xxxxxxxx RW 8
snmp-server trap-source Loopback0
snmp-server location CMTS-Brampton-ON
snmp-server contact ctac@rci.rogers.com 416-935-5700
snmp-server enable traps snmp linkdown linkup
snmp-server enable traps tty
snmp-server enable traps envmon fan supply temperature
snmp-server enable traps pim neighbor-change rp-mapping-change
snmp-server enable traps ipmulticast
snmp-server enable traps bgp
snmp-server enable traps alarms informational
snmp-server host <ip-address>xxxxxxx
snmp-server host <ip-address>xxxxxxx
snmp ifmib ifindex persist
```

```
!
```

```
mpls ldp router-id Loopback0 force
```

```
!
```

```
control-plane
```

```
!
```

```
cops listener access-list 81
banner motd ^CCCCC
```

```
XYZ Inc.
```

```
Unauthorized Access is strictly prohibited
Violations will be tracked and responsible parties prosecuted.
```

```
^C
```

```
alias exec bkup copy run tftp:// <ip-address>/greenconf/cmts/cisco/cmts23.hnsn-config
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
privilege interface level 12 cablelength
privilege interface level 12 cable upstream
privilege interface level 12 cable
privilege interface level 12 shutdown
privilege configure level 12 interface
```

### ! line con 0

```
exec-timeout 30 0
authorization commands 15 con_method
authorization exec con_method
login authentication con_method
transport preferred none
transport output all
stopbits 1
line aux 0
  transport output all
  stopbits 1
line vty 0 4
  access-class RCBIN_VTY in
  exec-timeout 0 0
  authorization commands 15 vty_method
  authorization exec vty_method
  login authentication vty_method
  length 0
  transport preferred none
  transport input ssh
  transport output all
line vty 5 15
  access-class RCBIN_VTY in
  authorization commands 15 vty_method
  authorization exec vty_method
  login authentication vty_method
```

### ! scheduler isr-watchdog ! cable fiber-node 1

```
  downstream Modular-Cable 1/1/0 rf-channel 0-2
  downstream Integrated-Cable 5/1/0 rf-channel 0
  upstream Cable 5/1 connector 0-1
```

### ! cable fiber-node 5

```
  downstream Modular-Cable 1/1/0 rf-channel 0-2
  downstream Integrated-Cable 5/1/1 rf-channel 0
  upstream Cable 5/1 connector 4-5
```

### ! cable fiber-node 8

```
  downstream Modular-Cable 1/1/0 rf-channel 0-2
  downstream Integrated-Cable 5/0/2 rf-channel 0
  upstream Cable 5/0 connector 8-9
```

### ! cable fiber-node 9

```
  downstream Modular-Cable 1/1/0 rf-channel 0-2
  downstream Integrated-Cable 5/0/3 rf-channel 0
  upstream Cable 5/0 connector 14-15
```

### ! cable fiber-node 11

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
downstream Modular-Cable 1/1/0 rf-channel 0-2
downstream Integrated-Cable 5/1/2 rf-channel 0
downstream Integrated-Cable 5/1/3 rf-channel 0
upstream Cable 5/1 connector 10 14
```

### ! cable fiber-node 17

```
downstream Modular-Cable 1/1/0 rf-channel 0-2
downstream Integrated-Cable 5/1/4 rf-channel 0
upstream Cable 5/1 connector 16-17
```

### ! cable fiber-node 21

```
downstream Modular-Cable 1/1/0 rf-channel 0-2
downstream Integrated-Cable 5/0/0 rf-channel 0
downstream Integrated-Cable 5/0/1 rf-channel 0
upstream Cable 5/0 connector 0 4
```

### ! cable fiber-node 23

```
downstream Modular-Cable 1/1/0 rf-channel 0-2
downstream Integrated-Cable 5/0/0 rf-channel 0
downstream Integrated-Cable 5/0/1 rf-channel 0
upstream Cable 5/0 connector 2 6
```

### ! cable fiber-node 37

```
downstream Modular-Cable 1/1/0 rf-channel 0-2
downstream Integrated-Cable 5/0/4 rf-channel 0
upstream Cable 5/0 connector 16
```

### ! cable fiber-node 39

```
downstream Modular-Cable 1/1/0 rf-channel 0-2
downstream Integrated-Cable 5/0/4 rf-channel 0
upstream Cable 5/0 connector 18
```

### ! cable fiber-node 41

```
downstream Modular-Cable 1/1/0 rf-channel 3-5
downstream Integrated-Cable 6/1/0 rf-channel 0
downstream Integrated-Cable 6/1/1 rf-channel 0
upstream Cable 6/1 connector 0 4
```

### ! cable fiber-node 49

```
downstream Modular-Cable 1/1/0 rf-channel 3-5
downstream Integrated-Cable 6/1/2 rf-channel 0
downstream Integrated-Cable 6/1/3 rf-channel 0
upstream Cable 6/1 connector 8 12
```

### ! cable fiber-node 57

```
downstream Modular-Cable 1/1/0 rf-channel 3-5 17
downstream Integrated-Cable 6/1/4 rf-channel 0
upstream Cable 6/1 connector 16-17
```

### ! cable fiber-node 59

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
downstream Modular-Cable 1/1/0 rf-channel 3-5 17
downstream Integrated-Cable 6/1/4 rf-channel 0
upstream Cable 6/1 connector 18-19
```

### ! cable fiber-node 61

```
downstream Modular-Cable 1/1/0 rf-channel 3-5
downstream Integrated-Cable 6/0/0 rf-channel 0
downstream Integrated-Cable 6/0/1 rf-channel 0
upstream Cable 6/0 connector 0 4
```

### ! cable fiber-node 69

```
downstream Modular-Cable 1/1/0 rf-channel 3-5 14-15
downstream Integrated-Cable 6/0/2 rf-channel 0
upstream Cable 6/0 connector 8-9
```

### ! cable fiber-node 71

```
downstream Modular-Cable 1/1/0 rf-channel 3-5 14-15
downstream Integrated-Cable 6/0/2 rf-channel 0
upstream Cable 6/0 connector 10-11
```

### ! cable fiber-node 72

```
downstream Modular-Cable 1/1/0 rf-channel 3-5
downstream Integrated-Cable 6/0/3 rf-channel 0
upstream Cable 6/0 connector 12-13
```

### ! cable fiber-node 77

```
downstream Modular-Cable 1/1/0 rf-channel 3-5 18
downstream Integrated-Cable 6/0/4 rf-channel 0
upstream Cable 6/0 connector 16-17
```

### ! cable fiber-node 81

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 18
downstream Integrated-Cable 7/1/0 rf-channel 0
upstream Cable 7/1 connector 0-1
```

### ! cable fiber-node 89

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 6-7
downstream Integrated-Cable 7/1/2 rf-channel 0
upstream Cable 7/1 connector 8
```

### ! cable fiber-node 90

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 6-7
downstream Integrated-Cable 7/1/2 rf-channel 0
upstream Cable 7/1 connector 9
```

### ! cable fiber-node 91

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 6-7
downstream Integrated-Cable 7/1/2 rf-channel 0
upstream Cable 7/1 connector 10
```

## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

### ! cable fiber-node 92

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 6-7
downstream Integrated-Cable 7/1/2 rf-channel 0
upstream Cable 7/1 connector 11
```

### ! cable fiber-node 93

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 12-13
downstream Integrated-Cable 7/1/3 rf-channel 0
upstream Cable 7/1 connector 12-13
```

### ! cable fiber-node 95

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 12-13
downstream Integrated-Cable 7/1/3 rf-channel 0
upstream Cable 7/1 connector 14-15
```

### ! cable fiber-node 97

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 19
downstream Integrated-Cable 7/1/4 rf-channel 0
upstream Cable 7/1 connector 16-17
```

### ! cable fiber-node 99

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 19
downstream Integrated-Cable 7/1/4 rf-channel 0
upstream Cable 7/1 connector 18-19
```

### ! cable fiber-node 101

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 8-9
downstream Integrated-Cable 7/0/0 rf-channel 0
upstream Cable 7/0 connector 0-1
```

### ! cable fiber-node 103

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 8-9
downstream Integrated-Cable 7/0/0 rf-channel 0
upstream Cable 7/0 connector 2-3
```

### ! cable fiber-node 109

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 10-11
downstream Integrated-Cable 7/0/2 rf-channel 0
upstream Cable 7/0 connector 8-9
```

### ! cable fiber-node 111

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 10-11
downstream Integrated-Cable 7/0/2 rf-channel 0
upstream Cable 7/0 connector 10-11
```

### ! cable fiber-node 117

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 14-15
downstream Integrated-Cable 7/0/4 rf-channel 0
```



## Cisco\_uBR-MC3GX60V\_Cable\_Line\_Card\_Configuration\_Example

```
upstream Cable 7/0 connector 16-17
```

### ! cable fiber-node 119

```
downstream Modular-Cable 1/3/0 rf-channel 0-2 14-15
downstream Integrated-Cable 7/0/4 rf-channel 0
upstream Cable 7/0 connector 18-19
```

### ! cable fiber-node 121

```
downstream Modular-Cable 1/3/0 rf-channel 3-5 20
downstream Integrated-Cable 8/1/0 rf-channel 0
upstream Cable 8/1 connector 0-1
```

### ! cable fiber-node 129

```
downstream Modular-Cable 1/3/0 rf-channel 3-5 21
downstream Integrated-Cable 8/1/2 rf-channel 0
upstream Cable 8/1 connector 8-9
```

### ! cable fiber-node 130

```
downstream Modular-Cable 1/3/0 rf-channel 3-5 23
downstream Integrated-Cable 8/1/3 rf-channel 0
upstream Cable 8/1 connector 12-13
```

### ! cable fiber-node 137

```
downstream Modular-Cable 1/3/0 rf-channel 3-5 16-17
downstream Integrated-Cable 8/1/4 rf-channel 0
upstream Cable 8/1 connector 16-17
```

### ! cable fiber-node 141

```
downstream Modular-Cable 8/0/0 rf-channel 3-5 11-12
upstream Cable 8/0 connector 0-1
```

### ! cable fiber-node 149

```
downstream Modular-Cable 8/0/0 rf-channel 3-5 14-15
upstream Cable 8/0 connector 8-9
```

### ! cable fiber-node 153

```
downstream Modular-Cable 8/0/0 rf-channel 3-5 16-17
upstream Cable 8/0 connector 12-13
```

### ! cable fiber-node 155

```
downstream Modular-Cable 8/0/0 rf-channel 3-5 16-17
upstream Cable 8/0 connector 14-15
```

### ! cable fiber-node 157

```
downstream Modular-Cable 8/0/0 rf-channel 3-5 18-20
upstream Cable 8/1 connector 16-17
```

!

```
ntp clock-period 17179995
ntp source Loopback0
ntp access-group peer 18
ntp update-calendar
ntp server <ip-address> source Loopback0
ntp server <ip-address> source Loopback0 prefer
end
```

### Related show Commands

Certain show commands are supported by the [Output Interpreter Tool \(registered customers only\)](#), which allows you to view an analysis of show command output.

"show controllers modular-cable <slot/subslot/controller:rf-channel> configuration" command to view configuration details.

"show cable mac-domain cable <slot/subslot/port> cgd-associations" command to view a summary of the (CGD) associations for all cable MAC domains.

"show interfaces modular-cable <slot/subslot/controller:rf-channel> configuration" command to view configuration details.

"show interfaces wideband-cable <slot/subslot/controller:bonded-channel> configuration" command to view configuration of the bandwidth allocation between WB channels and RF channels.

"show controllers modular-cable [association | config | mapping]" command to verify whether a wideband channel is configured correctly.

"show cable fiber-node" command to list all channels associated with the fiber node and to indicate if they are valid.

"show interfaces gigabitEthernet <slot/subslot/port>" command to view the GigE interface configuration.

"show controller" command to display link status of the primary and secondary ports and other information.

"show depi", "show depi session endpoints" (for the DEPI session status), and "show depi tunnel endpoints" (for the DEPI tunnel status) commands to view the DEPI session details.

"show controllers modular-cable rf-channel" to display the manual DEPI settings for the given controller.

"show controller cable <slot/subslot/port> and "show interface cable <slot/subslot/cable interface name>" commands to view information about the interface controllers, use the following commands in privileged EXEC mode.

"show cable modem" to view information about the registered and unregistered cable modems.

"show cable license" and "show license detail" to troubleshoot software license issues.

### Related Information

[Technical Support & Documentation - Cisco Systems](#)

[Configuring the Cisco uBR-MC3GX60V Cable Interface Line Card - Cisco Systems](#)