

# Touchstone CM3500

## DOCSIS 3.1 Cable Modem

### FEATURES

- 2x2 OFDM/OFDMA DOCSIS® 3.1 channels
- 32x8 SCQAM EuroDOCSIS® 3.0 channels
- Full Capture Bandwidth Tuner
- Switchable US filter options include: 5-85MHz or 5-204MHz
- DS frequency range: : 108/258-1218MHz
- Multi Processor Technology
- 1 Port 2.5 Gigabit Ethernet LAN
- Multiple L2VPN BSoD support with OAM extensions
- TR143 Speedtest
- PNM based network monitoring and diagnostics
- DS / US spectrum analyzer functionality



### PRODUCT OVERVIEW

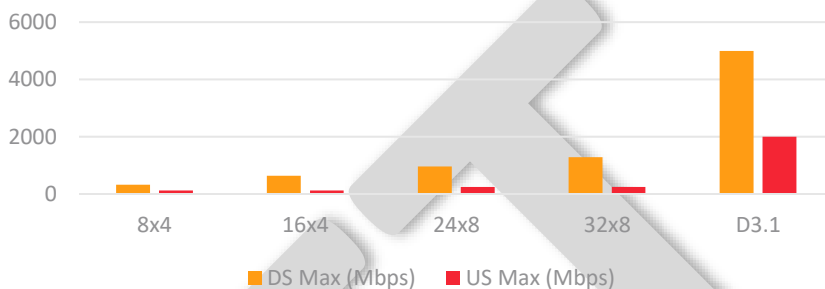
The CM3500 DOCSIS 3.1 implementation allows unprecedented data rates to be delivered to subscribers. The CM3500 is designed to enable deployment of multi-gigabit data services (up to 2.5Gbps max). The Switchable Diplexer provides for flexible RF performance, reduced potential for interference in the home network, and flexibility in a Service Provider's transition from DOCSIS 3.0 to DOCSIS 3.1. Overall, this feature-packed unit is intended to serve as the hub of a subscriber's network, connecting all IP-capable devices throughout the customer premises.

With residential high-speed data service, support is a top concern. The CM3500 distinguishes itself by providing tools to minimize the complexity of support. US and DS spectrum analysis along with proactive network management-based diagnostics take the monitoring and diagnostic capabilities of the CM3500 to a premium level. OAM extensions to L2VPN allow for system-level provisioning and diagnostics. Multiple provisioning methods (SNMP and Configuration File) allow custom-designed setup to be applied to monitor the end user more efficiently. An intuitive Graphical User Interface eases troubleshooting and control. The CM3500 is defining the future for advanced residential and SOHO services.

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## DOCSIS 3.0 vs DOCSIS 3.1 Speeds



### SPECIFICATIONS

#### Physical

Operating Temp (°C)	0 – 40
Operating Relative Humidity	5-95% (Non-Condensing)
Storage Temp (°C)	-40 to 70
Dimensions, HxWxD (in)	7.1 x 2.4 x 6.0
Weight (lbs) °C	0.94
Diagnostic LEDs (Front)	Power, Online
Diagnostic LEDs (Rear)	Ethernet Link/Speed

#### Interfaces

RF Interface	1 External 'F' Connector
Data Interfaces	1x 100/1000/2500 Base-T Ethernet RJ-45
Input Voltage (Nominal)	12VDC, 1.5A (adapter) 100-220V, 60Hz, 0.6A

### SPECIFICATIONS

#### RF Downstream

Bonded Channels	Up to 32 SC-QAM and/or 2 OFDM
Tuner Configuration	Full Capture Tuning Range
Frequency Range (MHz)	108/258 – 1218 (DOCSIS)
Data Rate (Gbps, Max)	2.5
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS)

#### RF Upstream

Bonded Channels	Up to 8 SC-QAM and/or 2 OFDMA
Frequency Range (MHz)	5 – 85 / 5 – 204 (DOCSIS)
Configurable Diplex Filter (MHz)	85 or 204 options
Data Rate (Gbps Max)	2.5
RF Output Level (dBmV)	+57 (64QAM, single US) +54 (64QAM, 4-8 US) +58 (16QAM, single US) +65 (OFDMA)

### ORDERING NUMBERS

100xxxx	CM3500A/NA-204,D3.1,108/258-1218 SWITCH DS DIPLEXER, 5-85/204 SWITCH US DIPLEXER,1-ENET(2.5G)
100xxxx	CM3500B/CE-204,D3.1, 108/258-1218 SWITCH DS DIPLEXER, 5-85/204 SWITCH US DIPLEXER,1-ENET(2.5G),EUR

## CUSTOMER CARE

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