

# Touchstone<sup>®</sup> CM8200

## DOCSIS<sup>®</sup> 3.1 Ultra Fast Cable Modem

### FEATURES

- 2x2 OFDM/ OFDMA DOCSIS<sup>®</sup> 3.1 channels and/or 32x8 SCQAM DOCSIS<sup>®</sup> 3.0
- Full Capture Bandwidth Tuner
- Multi Processor Technology with ARM based Application Processor
- 2 Gigabit Ethernet Ports
- Switchable upstream filters for 42 MHz/85MHz operation with option for full 204MHz US support
- Switchable downstream filters for 85MHz/108MHz with option for 258MHz and an upper edge of 1218MHz
- Multiple L2VPN BSoD support with OAM extensions
- Extensive OAM capabilities including Y.1731
- US and DS spectrum analyzer
- PNM based network monitoring and diagnosis



### PRODUCT OVERVIEW

CM8200 supporting DOCSIS 3.1 allows unprecedented data rates to be delivered to MSO customers. The CM8200 is designed to easily deploy Gigabit+ data services. Switchable US and DS filters are designed to produce superior RF performance while reducing interference in the home network and allowing the flexibility required for MSO to transition from DOCSIS3.0 to DOCSIS3.1. Increased DRAM and Flash allow new applications to be deployed on the modem. This feature-packed unit is intended to serve as the hub of the subscribers network, connecting all IP capable devices (Internet, Data, Voice and Video) throughout the customers premises.

Residential high speed data support has always been a concern of the operator. The CM8200 distinguishes itself with capabilities to minimize these support needs. US and DS spectrum analysis along with proactive network management based diagnostics take the monitoring and diagnostic capabilities of the CM8200 to a premium level. OAM extensions to L2VPN allow for system level provisioning and diagnostics. Multiple provisioning methods (SNMP, Configuration File, Remote WebGUI access) allow custom designed setup to be applied to monitor the end user more efficiently. The CM8200 will help lead the future to advanced home and small office services.

## SPECIFICATIONS

## Physical

Operating Temperature °C	0 to 40
Operating Relative Humidity	5-85% (Non condensing)
Storage Temperature °C	-40 to 70
Dimensions (H x W x D) mm.	132x44x132
Weight lbs	2.1
Diagnostic LED's (Front)	Power, US/DS, Online
Diagnostic LED's (Rear)	Ethernet Link/Speed

## Interfaces

RF Interface	1 External 'F' type connector
Data Interfaces (bridged)	2 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Home port	
Input Voltage (nominal)	+12V DC

## RF Downstream

Bonded Channels	Up to 32 SCQAM or 2 OFDM
Tuner Configuration	Full capture tuning range
Configurable Diplex Filter	85MHz-108MHz-258MHz
Frequency Range (MHz)	108MHz-1002MHz DOCSIS
Data Rate (Mbps Max.)	5 Gbps
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS)

## SPECIFICATIONS (CONT.)

## RF Upstream

Bonded Channels	Up to 8 SCQAM or 2 OFDMA
Frequency Range (MHz)	5 MHz to 204 MHz
Configurable Diplex Filter	42MHz-85MHz-204MHz
Data Rate (Mbps Max.)	Over 1 Gbps
RF Output Level (dBmV )	+65 dBmV (64 QAM, single upstream) +57dBmV (64QAM, 4-8 upstreams) +65dBmV (16 QAM, single upstreams) +65dBmV (OFDMA)

## ORDERING INFORMATION

Model	Description
CM8200A	DOCSIS3.1 Cable Modem, NA DOCSIS, PN 1000336
CM8200B	DOCSIS3.1 Cable Modem, EURO DOCSIS, PN 1000225

## CUSTOMER CARE

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656