Touchstone® CM8200
DOCSIS® 3.1 Ultra Fast Cable Modem

FEATURES
• 2x2 OFDM/ OFDMA DOCSIS® 3.1 channels and/or 32x8 SCQAM DOCSIS® 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 DOCSIS 3.0 to DOCSIS 3.1. 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 subscriber’s network, connecting all IP capable devices (Internet, Data, Voice and Video) throughout the customer’s 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)

### 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

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<th>Model</th>
<th>Description</th>
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<tr>
<td>CM8200A</td>
<td>DOCSIS3.1 Cable Modem, NA DOCSIS, PN 1000336</td>
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<tr>
<td>CM8200B</td>
<td>DOCSIS3.1 Cable Modem, EURO DOCSIS, PN 1000225</td>
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## CUSTOMER CARE

Contact Customer Care for product information and sales:
- United States: 866-36-ARRIS
- International: +1-678-473-5656

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