

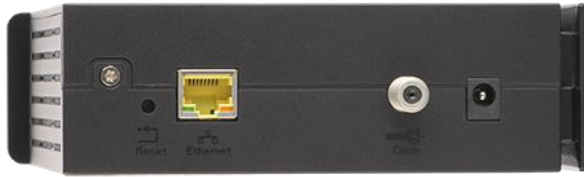


Touchstone® DOCSIS® 3.0 Upgradeable 32x8 Cable Modem CM3200



PRODUCT OVERVIEW:

The Touchstone® DOCSIS® 3.0 32x8 Cable Modem CM3200 delivers a full Gigabit per second of raw speed, ushering in a new era of Internet access! The CM3200 is well-suited to the home user – offering the speeds to stream multimedia content to multiple devices and the responsiveness to keep you “in the game” for online gaming. However, the CM3200 is also a serious commercial solution, ready to meet the challenging demands of small business with its Business Services over DOCSIS (BSoD) support. So, whether you’re at work or at play, the CM3200 is there to make sure your experience is ahead of the rest.



- DOCSIS® 3.0 Certified and backward compatible
- External AC/DC Adapter for reduced product size
- Flexible DS x US channel bonding support (up to 32x8)
- DS Spectrum Analysis, Speed Test, and LEDs for fast troubleshooting
- Business Services over DOCSIS (BSoD) support
- Available in 42MHz and 85MHz upstream (future) options

GENERAL SPECIFICATIONS

Physical

Operating Temperature °F (°C)	32 to 104 (0 to 40)
Operating Relative Humidity (Min-Max)	5-95% (non-condensing)
Storage Temperature °F (°C)	-40 to 158 (-40 to 70)
Dimensions (H x W x D) in. (cm) <i>Excludes F-connector</i>	5.9 x 5.3 x 1.8 (15.0 x 13.5 x 4.6)
Weight lbs (kg)	0.77 (0.35)
Diagnostic LEDs	Power, US/DS, Online, LAN

Interfaces

RF Interface	External 75Ω 'F' type connector
Data Interface	10/100/1000 Base-T Ethernet RJ-45
Power Interface (nominal)	Adapter input = 115-240 VAC, 50/60 Hz Adapter output (to CM3200) = 12V/2A

RF Downstream

Frequency Range (MHz)	CM3200A/NA: 88-1002 (edge-to-edge) CM3200A/NA-85: 108-1002 (edge-to-edge)
Bonded Channels	Up to 32
Tuner Configuration	Full capture tuning range
Modulation (QAM)	64 or 256
Data Rate (Mbps, Theoretical)	Up to 1000 (limited by GigE interface)
RF Input Sensitivity Level (dBmV)	-15 to +15
Carrier Bandwidth (MHz)	6
MoCA® Immunity Filter	Embedded

GENERAL SPECIFICATIONS (continued)

RF Upstream

Frequency Range (MHz)	CM3200A/NA: 5-42 CM3200A/NA-85: 5-85
Bonded Channels	Up to 8
Modulation	QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM (S-CDMA only)
Modulation Bandwidth (kHz)	TDMA: 200, 400, 800, 1600, 3200, 6400 S-CDMA: 1600, 3200, 6400
Data Rate (Mbps, Theoretical)	Up to 240 <i>Max raw DOCSIS rate; actual throughput is less due to overhead, configuration, and RF conditions</i>
RF Output Level (dBmV-1 channel)	TDMA: +17-61 (QPSK); +17-58 (8QAM, 16QAM); +17-57 (32QAM, 64QAM) S-CDMA: +17 to +56 (all modulations) Note1: A-TDMA max output reduced 3dB when transmitting 2 channels (6dB when transmitting 3+ channels). Extended US power compensates at higher bonding levels to ensure max output does not drop below +54dBmV. Note2: S-CDMA max output reduced 3dB when transmitting 2 or more channels.
Automatic Level Adjust	Yes
Frequency Stability (kHz)	±5
Output Impedance (Ω)	75
Standards	
DOCSIS® 3.0 Certified	UL® 60950 / CB
FCC Part 15 Class B	RoHS / WEEE
IEEE 802.3, IEEE 802.3ab	

ORDERING INFORMATION

Part #	Description
1000030	CM3200A/NA, DOCSIS 3.0 CM, Ships in 32x8 Configuration, 115-240VAC 50/60Hz (external adapter), NA Power Cord, 1x GigE, No USB, RoHS
TBD	CM3200A/NA-85, DOCSIS 3.0 CM, Ships in 32x8 Configuration, 5-85MHz US, 115-240VAC 50/60Hz (external adapter), NA Power Cord, 1x GigE, No USB, RoHS