



Touchstone® 8x4 DOCSIS®/EuroDOCSIS™ 3.0 Cable Modem, CM900

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) | 6.5 x 2.0 x 5.5 (16.5 x 5.0 x 14.0) - excluding F-connector |
| Weight lbs (kg) | 1.2 (0.54) |
| Diagnostic LEDs | Power, DS, US, Online, Link |

Interfaces

| | |
|-------------------------|--|
| RF Interface | External 'F' type connector |
| Data Interface | 10/100/1000 Base-T Ethernet, RJ-45 |
| Input Voltage (nominal) | 100-240 VAC 50/60 Hz (A and C models) 220-240 VAC 50 Hz (S model) |
| Power On/Off Switch | CM900S models only |
| Power Consumption (W) | 6.5 (idle), 9 (Max.) |

RF Downstream

| | |
|-----------------------------------|---|
| Frequency Range (MHz) | 108-1002 |
| Bonded Channels | up to 8 |
| Capture Bandwidth (MHz) | 96 |
| Carrier Bandwidth (MHz) | 6 (DOCSIS) or 8 (EuroDOCSIS) |
| Modulation (QAM) | 64 or 256 |
| Data Rate (Mbps, Theoretical) | up to 440 <i>Note: Maximum EuroDOCSIS rate; actual data throughput is less due to overhead</i> |
| RF Input Sensitivity Level (dBmV) | -15 to +15 (DOCSIS) or -17 to +17 (EuroDOCSIS) |

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Specifications Continued

RF Upstream

| | |
|--------------------------------------|---|
| Frequency Range (MHz) | 5 – 42 (DOCSIS) or 5 - 65 (EuroDOCSIS) |
| Bonded Channels | up to 4 |
| Modulation | QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM (S-CDMA only) |
| Data Rate (Mbps, Theoretical) | up to 131 <i>Note: Maximum DOCSIS rate; actual data throughput is less due to overhead</i> |
| RF Output Level (dBmV – one channel) | |
| A-TDMA | +17 to 57 dBmV (32 QAM, 64 QAM); +17 to 58 dBmV (8 QAM, 16 QAM); +17 to 61 dBmV (QPSK) <i>Note: A-TDMA max output power reduced 3dB when transmitting two channels and 6dB when transmitting 3 or 4 channels.</i> |
| S-CDMA | +17 to +56 dBmV (all modulations) <i>Note: S-CDMA max output reduced 3dB when transmitting 2 or more channels.</i> |
| Automatic Level Adjust | Yes |
| Frequency Stability (kHz) | ±5 |
| Output Impedance (Ohms) | 75 |

Standards

DOCSIS 3.0
IEEE 802.3, IEEE 802.3ab
UL® 60950
FCC Part 15 Class B
CE, CB
PSE
VCCI
RoHS, WEEE

Ordering Information

| Part Number | Description |
|-------------|---|
| 790473 | Touchstone CM900A/NA DOCSIS 3.0 complaint 8x4 cable modem with integrated 100-240 VAC, 50/60 HZ power supply with 6 foot NEMA 1-15 power cord. Includes Quick Install Guide and Ethernet Cable |
| 790474 | Touchstone CM900A/CE DOCSIS 3.0 complaint 8x4 cable modem with integrated 100-240 VAC, 50/60 Hz power supply with 6 foot CEE 7/16 Euro power cord. Includes Quick Install Guide and Ethernet Cable |
| 790582 | Touchstone CM900C/JA DOCSIS 3.0 complaint 8x4 cable modem for Japan, with integrated 100-240 VAC, 50/60 Hz power supply with 6 foot JIS 8303 (Class II) power cord. Includes Quick Install Guide. |
| 790476 | Touchstone CM900S/CE Dual Mode EuroDOCSIS/DOCSIS 3.0 1.5 complaint 8x4 cable modem with integrated 220-240 VAC, 50 Hz power supply with 6 foot CEE 7/16 Euro power cord. Includes Quick Install Guide and Ethernet Cable; equipped with ON/OFF power switch |

Specifications are subject to change without notice.

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CM900_TS_16DEC10



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