



# Touchstone® CM550 Cable Modem Technical Specification

## Specifications

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### Physical

Operating Temperature °F (°C)	41 to 104 (5 to 40)
Operating Relative Humidity (Min.-Max.)	5-85% (Non condensing)
Storage Temperature °F (°C)	-40 to 158 (-40 to 70)
Color	Dark gray
Dimensions (H x W x D) in. (cm)	6.8 x 6.4 x 1.2 (17.2 x 16.3 x 3.0)
Weight lbs (kg)	0.8 (0.35)
Diagnostic LEDs	Power, DS, US, ONLINE, LINK

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### Interfaces

RF Interface	External 'F' type connector
Data Interfaces (bridged)	10/100 Base-T Ethernet (RJ-45); USB 1.1 Series B receptacle
Input Power (nominal)	CM550A/NA: 115/120 VAC, 60 Hz; CM550A/CE: 220/240 VAC, 50 Hz; CM550B/CE: 220/240 VAC, 50 Hz

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### RF Downstream

Frequency Range (MHz)	CM550A: 88-860; CM550B: 108-862
Modulation (QAM)	64 or 256
Data Rate (Mbps) (Max.)	CM550A: 30.34 or 42.88; CM550B: 51
Input Impedance (Ohms)	75
RF Input Sensitivity (dBmV)	CM550A: ~ -27 (64 QAM) to +15; CM550B: -13 to +17 (256 QAM), -17 to +13 (64 QAM)
Bandwidth	CM550A: 6 MHz; CM550B: 8 MHz

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### RF Upstream

Frequency Range (MHz)	CM550A: 5-42; CM550B: 5-65
Modulation	QPSK, 8, 16, 32, 64, and 128 QAM (S-CDMA only)
Data Rate (Mbps) (Max.)	up to 30.72
RF Output Level (dBmV)	A-TDMA: +8 to 54 dBmV (32 QAM, 64 QAM), +8 to 55 dBmV (8 QAM, 16 QAM), +8 to 58 dBmV (QPSK) S-CDMA: +8 to +53 dBmV (all modulations)
Bandwidth	A-TDMA: 200, 400, 800, 1600, 3200 & 6400 KHz; S-CDMA: 1600, 3200 & 6400 KHz
Automatic Level Adjust	Yes
Gain Control Range (dB)	50
Frequency Stability (kHz)	±5
Output Impedance (Ohms)	75

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# ARRIS Technical Specifications

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## Specifications Continued

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### Standards

DOCSIS 2.0 Compliant (CM550A)  
Euro-DOCSIS 2.0 Compliant (CM550B)  
UL® 60950  
FCC Part 15 Class B  
CE  
RoHS Compliant  
WHQL  
USB-IF

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## Ordering Information

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Part Number	Descriptions
717530	Touchstone Cable Modem CM550A/NA (DOCSIS 2.0, 110V Power, NEMA 1-15 Plug)
717531	Touchstone Cable Modem CM550A/CE (DOCSIS 2.0, 220V Power, CEE7 Plug)
719429	Touchstone Cable Modem CM550A/AR (DOCSIS 2.0, 220V Power, Argentinean Plug)
717532	Touchstone Cable Modem CM550B/CE (Euro-DOCSIS 2.0, 220V, CEE7 Plug)
710434	Spare Ethernet Cable, CAT5, UTP, 2 meter
710433	Spare USB Cable, A to B
710603	Spare Power Adapter, 9V, 800MA, For A/NA.
713888	For A/CE
710419	For B/CE
719332	Spare CD-ROM w/ CM550 Docs + USB Driver

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Specifications are subject to change without notice.

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