

ARRIS CM820A

DOCSIS 3.0 CABLE MODEM

FEATURES

- DOCSIS® / EuroDOCSIS® 3.0 compliant and backward compatible
- Integrated Universal Power Supply for high reliability
- Flexible DSxUS channel bonding configuration support (up to 8x4)
- Multi-colored LEDs for rapid troubleshooting on installation
- Dual, independent 96MHz Tuners with receive range up to 1GHz
- Dual-mode operation on the CM820B and CM820S models

PRODUCT SPECIFICATIONS

PHYSICAL

Operating Temperature °C	32 to 104 (0 to 40)
Operating Relative Humidity	5-95% (Non-condensing)
Storage Temperature °C	-40 to 158 (-40 to 70)
Dimensions (H x W x D) in.	6.2 x 1.7 x 5.7
Weight (lbs.)	0.81
Diagnostic LED's	Power, US/DS, Online, Link

INTERFACES

RF Interface	External 75Ω 'F' type connector
Data Interface	10/100/1000 Base-T Ethernet
Input Voltage (nominal)	115-240 VAC 50/60Hz (A,B,S models) 100 VAC 50/60Hz (C model)
Power On/Off Switch	Yes (S model)
Power Consumption	5 (idle), 5.5 (max.) (A,B,S models) 6 (idle), 6.5 (max.) (C model)





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RF DOWNSTREAM

Frequency Range (MHz)	108-1002
Bonded Channels	Up to 8
Number of Tuners	2
Capture Bandwidth	96 (per tuner, 192 MHz total)
Modulation (QAM)	64 or 256
Data Rate (Mbps Max.)	Up to 343 (A,C models) Up to 444 (B,S models)
RF Input Sensitivity Level (dBmV)	-15 to +15 (A,C models) -17 to +17 (B,S models)
Carrier Bandwidth	6 (A,C models) 8 (B,S models)
MoCA® Immunity Filter	Embedded

RF UPSTREAM

Frequency Range (MHz)	5-42 (A model), 5-65 (B,C,S models)
Bonded Channels	Up to 4
Modulation (QAM)	QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM (S-CDMA)
Modulation Bandwidth (kHz)	TDMA: 200, 400, 800, 1600, 3200, 6400 S-CDMA: 1600, 3200, 6400
Data Rate (Mbps Max.)	Up to 122 TDMA: +17+ to 61 (QPSK)
RF Output Level (dBmV)	-17 to 58 (8QAM, 16QAM) +17 to 57 (32QAM, 64QAM)
Automatic Level Adjust	Yes
Frequency Stability (kHz)	±5
Output Impedance (Ω)	75



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STANDARDS

DOCSIS® 3.0

EuroDOCSIS® 3.0

UL® 60950

FCC Part 15 Class B

CE, CB

PSE

VCCI

RoHS

WEEE

IEEE 802.3, IEEE802.3ab