

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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PRODUCT SPECIFICATIONS

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