Adams Cable Equipment
RESELL • REUSE • RECOVER • RECYCLE

ARRIS TM802G

DOCSIS 3.0 CABLE MODEM

FEATURES

- DOCSIS® 3.0 compliant modem
- PacketCable® 1.0/1.5/2.0 compliant
- Flexible 8x4 downstream/upstream channel bonding
- Backwards compatible with DOCSIS® 1.0/1.1/2.0
- Up to two lines of carrier-grade VoIP as an Optimum modem
- Multiple Protocol Support: PacketCable (NCS) or Session Initiation Protocol (SIP)
- IPv4 or IPv6 adressing modes for DOCSIS® CM layer
- 10/100/1000 Base-T Ethernet interface

PRODUCT SPECIFICATIONS

PHYSICAL

Operating Temperature ˚F (˚C)	32 to122 (0 to 50)
Operating Relative Humidity	5-95% (Non-condensing)
Storage Temperature ˚F (˚C)	-40 to 158 (-40 to 70)
Dimensions (H x W x D) in.	9.7 x 2.1 x 7.1 - excluding F-connector
Weight (lbs.)	1.6 - excluding battery
Battery Back-up 6-Hour Option	Lithium-ion 2.2 AH Capacity, 0.25 lbs Battery
Battery Back-up 8-Hour Option	Lithium-ion 2.6 AH Capacity, 0.25 lbs Battery
Battery Back-up 12-Hour Option	Lithium-ion 4.4 AH Capacity, 0.50 lbs Battery
Battery Back-up 16-Hour Option	Lithium-ion 6.6 AH Capacity, 0.75 lbs Battery
Battery Back-up 24-Hour Option	Lithium-ion 8.8 AH Capacity, 1.0 lbs Battery
Battery Storage Temperature ˚F (˚C)	-4 to 140 (-20 to 60) *Note: Storage above 77˚F (25˚C) reduces battery life*
Telemetry	AC Fail, Battery Low, Battery Missing, Replace Battery
Diagnostic LEDs	Power, DS, US, Online, Link, Tel 1, Tel 2, Battery

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INTERFACES

RF Interface	External 75 ohm ‘F’ type connector
Data Interface	10/100/1000 Base-T Ethernet RJ-45
Telephony Interface	2 lines; RJ-14 (“Line 1/2”), RJ-11 (“Line 2”)
Input Voltage (nominal)	115-240 VAC 50/60 Hz
Power Consumption (W)	9 (idle), 12.5 (max.)

TELEPHONY

Supervisory Voltage	48 V DC nominal
Maximum Loop Length to CPE	1000 ft (305M) of 26 AWG (0.44mm) wire
Ringing Load Capacity	10 REN total; 5 per line
Provisionable High Loop Current Mode	Yes
Telcordia™ GR 1089 (Lightning & Power Surge) Tested	Yes
Programmable Interface for Worldwide Applications	Yes

RF DOWNSTREAM

Frequency Range (MHz)	108-1002
Bonded Channels	Up to 8
Capture Bandwidth (MHz)	2x48 (2 independent tuners, each 48 MHz wide)
Modulation (QAM)	64 or 256
Data Rate (Mbps Max.)	Up to 320
RF Input Sensitivity Level (dBmV)	-15 to +15
Carrier Bandwidth	6 MHz

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RF UPSTREAM

Frequency Range (MHz)	5-42
Bonded Channels	Up to 4
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM, 128 QAM (S-CDMA only)
Data Rate (Mbps Max.)	Up to 131
RF Output Level (dBmV-one channel)	A-TDMA: +17 to 61 (QPSK) +17 to 58 (8 QAM, 16 QAM) +17 to 57 (32 QAM, 64 QAM) S-CDMA: +17 to 56 (all modulations)
Automatic Level Adjust	Yes
Frequency Stability (kHz)	±5
Output Impedance (Ohms)	75

STANDARDS

DOCSIS® 3.0	RoHS, WEEE
PacketCable® 1.0 and 1.5	IEEE, 802.3, IEEE 802.3ab
PacketCable® 2.0 BASIC	RFC3261 SIP: Sesson Initiation Protocol
UL® 60950	Codec: G.711, 64 kbps, μ-law / A-law encoded speech
FCC Part 15 Class B	Enhanced codec support (G.726, G.728, G.729E)
CE, CB	T.38 Fax Relay

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