

ARRIS TM3202

DOCSIS 3.0 TELEPHONY MODEM

FEATURES

- DOCSIS® 3.0 32x8
- 2 lines of primary line Voice over IP (VoIP)
- Up to 1 Gigabit per second high speed data access
- Multiple battery pack options
- 16x4, 24x8, or 32x8 bonded channels
- Industry-leading ARRIS voice and battery back-up features
- Data services as high as 1 Gbps

PRODUCT SPECIFICATIONS

PHYSICAL

Operating Temperature °C

0 to 40

Operating Relative Humidity

5-95% (Non-condensing)

Storage Temperature °C

-40 to 70

Dimensions (H x W x D) in.

TM3202A: 7.1 x 1.8 x 7.1

TM3202G: 9.1 x 2.2 x 7.0

TM3202G w/ 8-cell: 9.7 x 2.2 x 7.0

Weight (lbs.)

TM3202A: 1.11

TM3202G: 1.39 – not including battery

Battery Pack Weights (lbs.)

4-Hr Pack: Li-ion 2.2 AH Capacity, 0.25

8-Hr Pack: Li-ion 4.4 AH Capacity, 0.50

12-Hr Pack: Li-ion 6.6 AH Capacity, 0.75

16-Hr Pack: Li-ion 8.8 AH Capacity, 1.0

Battery Storage Temperature °C

-4 to 140 (-20 to 60)

Storage above 77°F (25°C) reduces battery life

Battery Telemetry (TM3202G)

AC Fail, Battery Low, Battery Missing,
Replace Battery

Diagnostic LEDs

Power, US/DS, Online, Tel1, Tel2,
Battery (TM3202G only)





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PRODUCT SPECIFICATIONS

INTERFACES

RF Interface

External 75 ohm 'F' type connector

Data Interface

10/100/1000 Base-T Ethernet (RJ-45 connector)

Telephony Interface

Two (2) RJ-11 jacks

Battery Interface

Custom male connector, rectangular, 2mm

Input Voltage (nominal)

115 VAC, 60 Hz

TELEPHONY

Supervisory Voltage

48 VDC nominal

Maximum Loop Length to CPE

1500 ft. (457M) of 26 AWG (0.4mm) wire

Ringing Load Capacity

10 REN total; 5 per line

Provisionable High Loop Current Mode

Yes (40mA constant current source)

Telcordia™ GR 1089 Tested

Yes

Programmable Country Interface

Yes (support for multiple country templates)

RF DOWNSTREAM

Frequency Range (MHz)

108-1002 (edge-to-edge)

Bonded Channels

Up to 32

Tuner Configuration

Full capture tuning range

Modulation (QAM)

64 or 256

Data Rate (Mbps Max.)

Up to 1000 (limited by GigE interface)

RF Input Sensitivity Level (dBmV)

-15 to +15

Carrier Bandwidth

6 MHz

MoCA® Immunity Filter

Yes

RF UPSTREAM

Frequency Range (MHz)

5-42 (A/NA, G/NA) or 5-85 (A/NA-85 versions)

Bonded Channels

Up to 8

Modulation

QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM
(S-CDMA only)

Modulation Bandwidth (KHz)

TDMA: 200, 400, 800, 1600, 3200, 6400
S-CDMA: 1600, 3200, 6400

Data Rate (Mbps Max.)

Up to 240



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PRODUCT SPECIFICATIONS

RF UPSTREAM CONT.

RF Output Level (dBmV - one channel)

TDMA: +17-61 (QPSK); +17-58 (8QAM, 16QAM);
+17-57 (32QAM, 64QAM)

S-CDMA: +17 to +56 (all modulations)

Note1: A-TDMA max output reduced 3dB when transmitting 2 channels (6dB when transmitting 3+ channels). Extended US power compensates at higher bonding levels to ensure max output does not drop below +54dBmV.

Note2: S-CDMA max output reduced 3dB when transmitting 2 or more channels.

Automatic Level Adjust

Yes

Frequency Stability (KHz)

±5

Output Impedance (Ohms)

75

STANDARDS

DOCSIS 3.0 Certified

UL® 60950 / CB

RoHS / WEEE

PacketCable 1.0, 1.5,
2.0 Compliant

FCC Part 15 Class B / ICES-003

G.711, 64 kbps, μ -law and
A-law encoded speech

IEEE 802.3, 802.3ab

Telcordia™ GR-1089
Lightning/Surge

Enhanced codecs: G.722, G.726,
G.728, G.729E

RFC3261 Legacy SIP

Telcordia™ GR-63 NEBS

T.38 Fax Relay

ITU-T K.21