



ARRIS TG862G

DOCSIS® 3.0 RESIDENTIAL GATEWAY

FEATURES

- 8x4 Channel Bonding
- Multi Processor Technology for Highest Performance
- DOCSIS® 3.0 and PacketCable™ 1.1/1.5 compliant design
- Upgradable to PacketCable 2.0
- 4 port Gigabit Ethernet Wireless Router
- Integrated 2.4GHz 802.11n radio
- USB 2.0 Host Port
- Enhanced WebGUI Interface with Technician Level Access
- Supports Firewall, Parental Control, L2TP, RIP, DHCP and more
- Up to two lines of carrier-grade VoIP
- Internal Power Supply for Highest Reliability
- Multiple Protocol Support: PacketCable (NCS) and Session Initiation Protocol (SIP)



PRODUCT SPECIFICATIONS

PHYSICAL

Operating Temperature °F (°C)	41 to 122 (5 to 40)
Operating Relative Humidity (Min-Max)	5-85% (Non-condensing)
Storage Temperature °F (°C)	-40 to 158 (-40 to 70)
Color	Black
Dimensions (H x W x D)	9 x 8.2 x 2 in. (excluding F-connector)
Weight	No battery included: 1.8 lbs.
Backup Capacity	Lithium-ion 2.6 Ah for 8 hours operation; Consult ARRIS for other battery holdup time options
Battery Dimensions	1.2 x 1.85 x 3.1 in.
Weight	1.0 lbs.
Battery Storage Temperature °F (°C)	-4 to 140 (-20 to 60) (Storage above 77°F (25°C) will significantly reduce life of battery - not recommended)
Telemetry	AC Fail, Battery Low, Battery Missing, Replace Battery
Diagnostic LEDs	Power, DS, US, Online, Ethernet, WiFi, Secure, Tel 1/2, Battery



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PRODUCT SPECIFICATIONS

INTERFACES

RF Interface	External 'F' type connector
Data Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Telephony Interface	2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2")
USB Interface	USB 2.0 Powered Host Port
Input Voltage (nominal)	100-240 Vac 50/60 Hz

TELEPHONY

Supervisory Voltage	48 Vdc nominal
Maximum Loop Length to CPE	1000 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, NA templates ONLY)
Telcordia™ GR1089 (Lightning and Power Surge) Tested	Yes
Programmable Interface for Worldwide Applications	Yes (supports multiple country templates)

RF DOWNSTREAM

Bonded Channels	Up to 8
Tuner Configuration	2 tuning ranges of 48 MHz each supporting 4 bonded channels
Frequency Range (MHz)	108-1002 DOCSIS
Carrier Bandwidth (MHz)	6 (DOCSIS)
Modulation (QAM)	64 or 256
Data Rate (Mbps Max.)	Up to 320 DOCSIS
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS)



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RF UPSTREAM

Bonded Channels	Up to 4
Frequency Range (MHz)	5 to 42 (DOCSIS)
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM (S-CDMA only)
Data Rate (Mbps Max.)	Up to 160
RF Output Level (dBmV)	ATDMA: +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)
Automatic Level Adjust	Yes
Frequency Stability (kHz)	±5
Output Impedance (Ohms)	75

WIRELESS

Transmit Power Output (EIRP)	19.5dBm +1.5/-1.5dB 802.11b; 17.5dBm 1.5/1.5dB 802.11n (MCS 7)
Receive Levels	>-86dBm 802.11b 11Mbps; >-76dBm 802.11g 54Mbps, >-76dBm 802.11n HT20 MCS7
Antennas	2 transmit and receive

STANDARDS

DOCSIS 3.0	IEEE 802.3, IEEE 802.3ab, IEEE 802.3x
PacketCable 1.0 & 1.5	IEEE 802.1p, IEEE 802.1Q
Codec: G.711, 64 kbps, μ and A-law encoded speech	IEEE Std. 802.11b, 1999 Edition IEEE Std. 802.11g, 2002 Edition
Enhanced codec firmware support (G.726, G.828, G.729E)	IEEE Std. 802.11n
T.38 Fax Relay	WiFi Alliance Certified UL® 60950 FCC Part 15 Class B