

ARRIS TG1662G

DOCSIS 3.0 RESIDENTIAL GATEWAY

FEATURES

- 16x4 Channel Bonding
- Full Capture Bandwidth Tuner
- Multi Processor Technology for Highest Performance
- Intel Atom Core Application Processor
- DOCSIS® 3.0 and PacketCable™ 2.0 compliant design
- 4 port Gigabit Ethernet Wireless Router
- 3x3 Integrated Dual Band Concurrent
- 2.4GHz and 5GHz 802.11n radios with Beam Forming
- USB 2.0 Host Port
- Upcoming support for DLNA and File Storage
- Two FXS lines of carrier-grade VoIP
- HD Voice
- Dual Stack IPv4/IPv6 Home Router
- Internal Power Supply for Highest Reliability
- Battery backup

PRODUCT SPECIFICATIONS

PHYSICAL

Operating Temperature °F (°C)

0 to 104 (0 to 40)

Operating Relative Humidity (Min-Max)

5-85% (Non condensing)

Storage Temperature °F (°C)

-40 to 158 (-40 to 70)

Color

Black

Dimensions

10.8 x 8.2 x 2.3 in. (H x W x D) - excluding F-connector

Backup Capacity

4 cell 2.2AH Lithium-ion for 8 hours operation.

Battery Dimensions

1.2 x 1.95 x 5.5 in.

Weight

2.5 lbs. (With Battery included)

Battery Storage Temperature °F (°C)

-4 to 140 (-20 to 60)

Note: Storage above 77°F (25°C) will significantly reduce life of the battery and is not recommended.





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PRODUCT SPECIFICATIONS

PHYSICAL CONT.

Telemetry

AC Fail, Battery Low, Battery Missing,
Replace Battery

Diagnostic LEDs

Diagnostic LEDs Power, US/DS, Online, 2.4GHz,
5GHz, Tel1, Tel2, Battery

INTERFACES

RF Interface

External 'F' type connector

Data Interfaces (bridged)

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

Analog Telephony Interface

2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2")

USB Interface

USB 2.0 Powered Host Port

Input Voltage (nominal)

115VAC-240VAC, 50/60 Hz

TELEPHONY

Supervisory Voltage

48 Vdc nominal

Maximum Loop Length to CPE

1000 ft (457M) of 26 AWG (0.4 mm) wire

Ringing Load Capacity

10 REN total; 5 per line

Provisionable High Loop Current Mode

Yes (40mA constant current source)

Programmable Interface for Worldwide Applications

Yes (supports multiple country templates)

RF DOWNSTREAM

Bonded Channels

Up to 16

Tuner Configuration

Full capture tuning range

Frequency Range (MHz)

108-1002

Carrier Bandwidth (MHz)

6

Modulation (QAM)

64 or 256

Data Rate (Mbps Max.)

Up to 640

RF Input Sensitivity Level (dBmV)

-15 to +15



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PRODUCT SPECIFICATIONS

RF UPSTREAM

Bonded Channels	Up to 4
Frequency Range (MHz)	5 to 42
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 57 dBmV (32 QAM, 64 QAM)
+8 to 58dBmV (8 QAM, 16 QAM)
+8 to 61 dBmV (QPSK)

S-CDMA

+8 to +56 dBmV (all modulations)

Automatic Level Adjust

Yes

Output Impedance (Ohms)

75

WIRELESS

Frequency Range

Simultaneous 2.5GHz and 5GHZ operation

Transmit Power

2.4GHz – 24.3 dBm +2/-2 dBm 802.11n MCS0;
24.3dBm +2/-2dBm 802.11n (MCS7)

5.0GHz – 26.3 dBm +2/-2 dBm 802.11n MCS0;
26.3 dBm +2/-2dBm 802.11n (MCS7)

Includes MiMo additive power gains. Total system power is adaptable to maintain regulatory limits in the specific band of operation where necessary.

Receive Levels (all bands)

2.4GHz - <-86dBm 802.11n (MCS0),
<-74dBm 802.11n (MCS7)

5.0GHz - <-84dBm 802.11n (MCS0),
<-72dBm 802.11n (MCS7)

Spatial Streams

3

Antennas

3 transmit, and 3 receive (per band)



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PRODUCT SPECIFICATIONS

STANDARDS

DOCSIS 3.0

PacketCable 1.0 & 1.5

Codec (64kbps): G.711 μ and A-law encoded speech,

Enhanced G.722 HD

T.38 Fax Relay

IEEE 802.3, IEEE 802.3ab, IEEE 802.3x

IEEE 802.1p, IEEE 802.1Q

IEEE Std. 802.11b, 1999 Edition

IEEE Std. 802.11g, 2002 Edition

IEEE Std. 802.11n

WiFi Alliance Certified

FCC Part 15 Class B

UL® 60950

ETSI and CE

ROHS WEE