

# ARRIS DG1660A

**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
- Dual Stack IPv4/IPv6 Home Router
- Internal Power Supply for Highest Reliability



## PRODUCT SPECIFICATIONS

### PHYSICAL

Operating Temperature °F (°C)	32 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 (H x W x D)	10.8 x 8.2 x 2.3 in. - excluding F-connector
Weight	2.5 lbs.
Diagnostic LEDs	Power, US/DS, Online, 2.4GHz , 5GHz

### INTERFACES

RF Interface	External 'F' type connector
Data Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
USB Interface	USB 2.0 Powered Host Port
Input Voltage (nominal)	100VAC-240VAC, 50/60 Hz



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### PRODUCT SPECIFICATIONS

#### RF DOWNSTREAM

Bonded Channels	Up to 16
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108-1002 DOCSIS
Carrier Bandwidth (MHz)	6 (DOCSIS)
Modulation (QAM)	64 or 256
Data Rate (Mbps Max.)	Up to 640 DOCSIS
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS)

#### 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 57 dBmV (32 QAM, 64 QAM)  
+8 to 58 dBmV (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.



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## PRODUCT SPECIFICATIONS

### WIRELESS CONT.

**Spatial Streams**

3

**Receive Levels**

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

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

**Antennas**

3 transmit, and 3 receive (per band)

### STANDARDS

**DOCSIS 3.0**

IEEE 802.3, IEEE 802.3ab, IEEE 802.3x

**UL® 60950**

IEEE 802.1p, IEEE 802.1 Q

**WiFi Alliance Certified**

IEEE Std. 802.11b, 1999 Edition

**FCC Part 15 Class B**

IEEE Std. 802.11g, 2002 Edition

IEEE Std. 802.11n