

ARRIS DG1670A

DOCSIS 3.0 DATA 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)	9.5 x 7.25 x 2.3 in. - excluding F-connector
Weight	1.2 lbs.
Diagnostic LEDs	Power, US/DS, Online, 2.4GHz , 5GHz, MoCA

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
MoCA	MoCA Version 1.1 coax support
Input Voltage (nominal)	100VAC-240VAC, 50/60 Hz



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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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WIRELESS CONT.

Spatial Streams	3
Receive Levels	2.4GHz - <-86dBm 802.11 n (MCS0), <-74dBm 802.11 n (MCS7)
	5.0GHz - <-84dBm 802.11 n (MCS0), <-72dBm 802.11 n (MCS7)
Antennas	3 transmit, and 3 receive (per band)

MOCA

Frequency Range (MHz)	1150 – 1500
Network Channel Bandwidth (MHz)	50
Max Transmit Power (dBm)	+ 9 max (adjustable)
Max PhyRate (Mbps)	270
Application Data Rate (Mbps)	175 bidirectional combined
Link Delay	9ms max

STANDARDS

DOCSIS 3.0	IEEE 802.3, IEEE 802.3ab, IEEE 802.3x
MoCA 1.1	IEEE 802.1p, IEEE 802.1Q
UL® 60950	IEEE Std. 802.11b, 1999 Edition
WiFi Alliance Certified	IEEE Std. 802.11g, 2002 Edition
FCC Part 15 Class B	IEEE Std. 802.11n