DG1670A DOCSIS® 3.0 Dual Band Concurrent Wireless Data Gateway with MoCA®

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) in.	9.5 x 7.25 x 2.3 - excluding F-connector
Weight lbs.	1.2
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

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)

Technical Specification

Specifications Continued

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 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 (from any antenna)	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.
Spatial Streams	3
Receive Levels (all bands)	2.4GHz - <-86dBM 802.11n (MCS0) , <-74dBm 802.11n (MCS7) 5.0GHz - <-84dBM 802.11n (MCS0) , <-72dBm 802.11n (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 Phy Rate (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

Ordering Information

Part Number	Description
DOCSIS 3.0 Models	Touchstone; DG1670A/NA Wireless Modem DOCSIS 3.0 16x4, Dual Band Concurrent 3x3:3 802.11n radios, 4 Gigabit Ethernet, MoCA1.1, 115-240VAC, 50/60 Hz
800938	Touchstone DG1670A/NA with NEMA 1-15 Power Cord
Accessories	Please contact ARRIS for Specific Ordering Information and Options
	Power Cords, Wall Mounting Brackets

Specifications are subject to change without notice.

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