



# ARRIS TG1682G

**DOCSIS 3.0 WIRELESS GATEWAY**

## FEATURES

- 24x8 Channel Bonding
- Full Capture Bandwidth Tuner
- Multi Processor Technology with a 1.2GHz 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 802.11n and 5GHz 802.11ac High Power Radios
- MoCA2.0 for in Home Video and Data distribution over Coax
- USB 2.0 Host Port
- Two FXS lines of carrier-grade VoIP with HD voice support
- Internal Power Supply for Highest Reliability
- Battery backup

## PRODUCT SPECIFICATIONS

### PHYSICAL

<b>Operating Temperature °F (°C)</b>	0 to 50
<b>Operating Relative Humidity (Min-Max)</b>	5-85% (Non condensing)
<b>Storage Temperature °F (°C)</b>	-40 to 70.
<b>Dimensions (H x W x D)</b>	10.1 x 10.3 x 3.25 in.
<b>Backup Capacity (not supplied)</b>	4 cell 2.2AH Lithium-ion for 8 hours operation. (#718005 Battery Pack)
<b>Weight</b>	2.5 lbs. (With Battery included)
<b>Battery Storage Temperature °F (°C)</b>	-20 to 60
	Note: Storage above 77°F (25°C) will significantly reduce life of the battery and is not recommended.
<b>Diagnostic LEDs (front)</b>	Power, US/DS, Online, 2.4GHz, 5GHz, Tel1, Tel2, Battery, MoCA
<b>Diagnostic LEDs (rear)</b>	Ethernet Link/Speed





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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)
Analog Telephony Interface	2 lines; RJ-11
USB Interface	USB 2.0 Powered Host Ports
MoCA	MoCA 2.0
Input Voltage (nominal)	115VAC, 50/60 Hz

#### TELEPHONY

Supervisory Voltage	48 Vdc nominal
Ringing Load Capacity	10 REN total; 5 per line
Provisionable High Loop Current Mode	Yes (40mA constant current source)

#### RF DOWNSTREAM

Bonded Channels	Up to 24
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108-1002 DOCSIS
Data Rate (Mbps Max.)	Up to 960
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS)

#### RF UPSTREAM

Bonded Channels	Up to 8
Frequency Range (MHz)	5 to 42 or 5 to 85 depending on model
Data Rate (Mbps Max.)	Up to 240
RF Output Level (dBmV)	+57 dBmV (64 QAM, single upstream) +54dBmV (64QAM, 4-8 upstreams) +58dBmV (16 QAM, single upstream) +56 dBmV (SCDMA, single upstream)



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### PRODUCT SPECIFICATIONS

#### WIRELESS

Frequency Range	2.5GHz and 5GHz
Transmit Power (from any antenna)	+27dBm (MCS7) +26 dBm (MCS9)
Spatial Streams	3
Receive Levels	2.4GHz <-88dBm 802.11n (MCS0) <-71dBm 802.11n (MCS7), HT20 5.0GHz <-84dBm 802.11ac (MCS0) <-57dBm 802.11ac (MCS9), VHT80
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)
Transmit Power Shipped (dBm)	0
Max Phy Rate (Mbps)	700
Application Data Rate (Mbps)	400+ bidirectional combined