ARRIS TG1652
DOCSIS 3.0 WIRELESS GATEWAY

FEATURES

• 16x4 Channel Bonding

• 600Mbps Downstream support with internal
  Spectrum Analyzer

• DOCSIS®/EuroDOCSIS® 3.0 compliant design

• Full Capture Bandwidth Tuner

• Multi Processor Technology with a 600MHz Intel Atom
  Core Application Processor

• 4 port Gigabit Ethernet Router

• 2x2 2.4GHz 802.11n Radio

• 2x2 5GHz 802.11ac Radio

• USB 2.0 Host Port

• Advanced Firmware support for IPV6 and SoftGRE

• Two FXS lines of carrier-grade VoIP with HD voice support

• Battery and Non-Battery models

PRODUCT SPECIFICATIONS

PHYSICAL

Operating Temperature ˚C	0 to 40
Operating Relative Humidity	5-85% (Non condensing)
Storage Temperature ˚C	-40 to 70
Dimensions (H x W x D) in.	235 x 190 x 58 (excludes "F" connector) TG1652A
	260 x 230 x 58 (excludes "F" connector) TG1652G
Weight (lbs.)	.7 (TG1652A/S) .8 (TG1652G no battery)
Diagnostic LED's (Front)	Power, US/DS, Online, 2.4GHz, 5GHz, Tel1, Tel2, WPS, Battery (1652G)
Diagnostic LED's (Rear)	Ethernet Link/Speed
Front Switches	WPS
Rear Switches	Power Switch TG1652S Only
Battery (1652G)	718005 for 8 hour holdup time

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INTERFACES

RF Interface	External'F' type connector
Data Interfaces (bridged)	4 x 10/100/1000 Base-T (RJ-45)
Analog Telephony Interface	2 lines; RJ-11
USB Interface	USB 2.0 Powered Host Port
Input Voltage (nominal)	115V-230VAC 50/60Hz

TELEPHONY

Supervisory Voltage	48 Vdc nominal
Ringing Load Capacity	6 REN total; 3 per line
Provisionable High Loop Current Mode	Yes (40mA constant current source)
Codec Support	G.729, G.711, G.722

RF DOWNSTREAM

Bonded Channels	Up to 16
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108MHz-1002MHz
Data Rate (Mbps Max.)	640 Gbps
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS), -17 to +15 (EuroDOCSIS)

RF UPSTREAM

Bonded Channels	Up to 4
Frequency Range (MHz)	5 to 42 DOCSIS, 5 to 85 EuroDOCSIS
Data Rate (Mbps Max.)	Up to 120 (4 upstreams)
RF Output Level (dBmV)	+57 dBmV (64 QAM, single upstream)
	+54dBmv (64QAM, 4 upstreams)
	+58dBmV (16 QAM, single upstream)

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PRODUCT SPECIFICATIONS

WIRELESS 2.4GHZ

Transmit Power EIRP	+23dBm (802.11n MCS0, HT20)
	+18dBm (802.11n MCS7, HT20)
Spatial Streams/Antennas	2
Receive Levels	<-85dBm 802.11n (MCS0,HT20)
	<-68dBm 802.11n (MCS7, HT20)

WIRELESS 5GHZ

Transmit Power EIRP	+23dBm (802.11ac MCS0,VT20)
	+18.5 dBm (802.11n MCS7,HT40)
Spatial Streams/Antennas	2
Receive Levels	<-87dBm 802.11ac (MCS0,VT20)
	<-65dBm 802.11n (MCS7,HT40)
	<-54dBm (802.11ac, MCS9,VHT80)