TG1652

Wireless Gateway

ARRIS™

FEATURES:

- 16x8 Channel Bonding
- 600Mbps Downstream support with internal Spectrum Analyzer
- DOCSIS®/EuroCOCSIS® 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
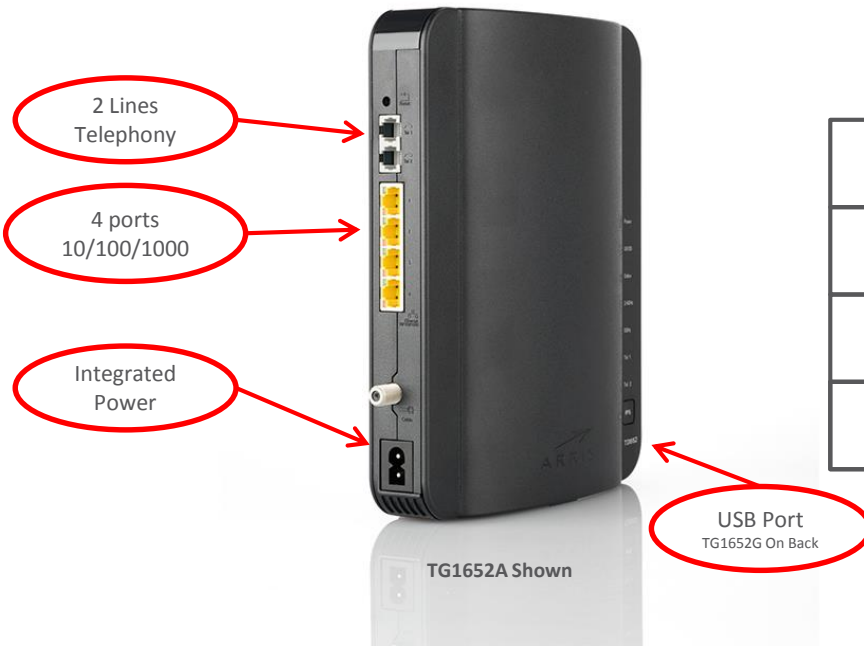- Battery and Non-Battery models

TG1652A/S   TG1652G

PRODUCT OVERVIEW:

Operators are wanting to push the limits on DOCSIS/EuroDOCSIS 3.0 performance and the user experience delivered to the customer. The TG1652 with its superior 802.11n and 802.11ac Dual Band Wireless radios, Ethernet and USB interfaces can deliver this performance while also offering improvements in home coverage above that of other models. This feature-packed unit is intended to serve as the hub of the subscribers network, connecting all IP capable devices (Internet, Data, Voice and Video) throughout the customer's premises.

Residential gateway support has always been a concern of the operator. The TG1652 distinguishes itself with capabilities to minimize these support needs. Multiple provisioning methods (SNMP, Configuration File, Remote WebGUI access, TFTP, and TR-069/181) allow custom designed setups to be applied to monitor the end user more efficiently. Multiple remote access levels (User and MSO) also allow more ease and flexibility for manual configuration and control.

The TG1652 will help lead the future to advanced home and small office services.

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ARRIS

2 Lines Telephony

4 ports 10/100/1000

Integrated Power

USB Port
TG1652G On Back

TG1652A Shown

Interface Speeds

WiFi	**1200Mbps**
DOCSIS Downstream	**640Mbps**
USB2.0	**480Mbps**
DOCSIS Upstream	**240Mbps**

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) mm	235 x 190 x 58 (excludes "F" connector) TG1652A 260 x 230 x 58 (excludes "F" connector) TG1652G
Weight kgs.	.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

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)	108-1002
Data Rate (Mbps Max.)	640Mbps
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS), -17 to +15 EuroDocsis

RF Upstream

Bonded Channels	Up to 4 (42MHz), 8 (85MHz)
Frequency Range (MHz)	5 to 42 DOCSIS, 5 to 85 EuroDOCSIS
Data Rate (Mbps Max.)	up to 240 (8 upstreams)
RF Output Level (dBmV)	+57 dBmV (64 QAM, single upstream) +54dBmv (64QAM, 4-8 upstreams) +58dBmV (16 QAM, single upstream)

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)

Note: Wi-Fi Transmit Powers are the maximum available from the device and can be lower based on regulatory limits in specific markets. Contact ARRIS sales for more details.

Ordering Information

Model	Description
804124	TG1652A/NA, 42MHz Upstream, US Cord, Non-Battery
804122	TG1652A/CE, 42MHz Upstream, CEE7/16 Cord, Non-Battery
804118	TG1652G/NA-0, 42MHz Upstream, US Cord, Battery Capable
804119	TG1652G/NA-8, 42MHz Upstream, US Cord, with 8 Hour Battery
804121	TG1652G/CE-0, 42MHz Upstream, CEE7/16 cord, with 8 Hour Battery
804120	TG1652G/CE8, 42MHz Upstream, CEE7/16 cord, with 8 Hour Battery
1000294	TG1652S/CE-85, 85MHz Upstream, EuroDOCSIS, CEE7/16 Cord, Non-Battery

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