

Touchstone® TG862A/S DOCSIS® 3.0 Residential Gateway with 802.11n, 4 Port Router, and 2 Voice Lines

Specifications

Physical

Operating Temperature °F (°C) 41 to 122 (5 to 40) Operating Relative Humidity (Min-Max) 5-85% (Non condensing) Storage Temperature °F (°C) -40 to 158 (-40 to 70)

Color **Black**

8 x 8.2 x 2 inches, 20.3x20.8x5 cm - excluding F-connector Dimensions (H x W x D)

Weight 1.6lbs, .73kgs

Diagnostic LEDs Power, DS, US, Online, Ethernet, Wi-Fi®, Secure, Tel 1, Tel 2

Interfaces

RF Interface External 'F' type connector

Data Interfaces (bridged) 4 x 10/100/1000 Base-T Ethernet (RJ-45 connector) Telephony Interface 2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2")

USB Interface **USB 2.0 Powered Host Port**

Input Voltage (nominal) 100-240 Vac 50/60 Hz (Power Switch on "S" model)

Telephony

Supervisory Voltage 48 Vdc nominal

Maximum Loop Length to CPE 1000 ft (457M) of 26 AWG (0.4 mm) wire

Ringing Load Capacity 10 REN total; 5 per line

Provisionable High Loop Current Mode

Telcordia™ GR 1089 (Lightning and

Power Surge) Tested

Yes (40mA constant current source, NA templates ONLY)

Applications

Programmable Interface for Worldwide Yes (supports multiple country templates)

RF Downstream

Bonded Channels Up to 8

Tuner Configuration 2 tuning ranges of 96MHz each supporting 8 bonded channels

Frequency Range (MHz) 108-1002

6 (DOCSIS), 8 (EuroDOCSIS™) ("S" Model) Carrier Bandwidth (MHz)

Modulation (QAM) 64 or 256

Up to 320 DOCSIS, Up to 420 EuroDOCSIS Data Rate (Mbps Max.)

RF Input Sensitivity Level (dBmV) -15 to +15

Continue to next page.

ARRIS Technical Specification

Specifications Continued

| RF Upstream | |
|------------------------------|--|
| Bonded Channels | Up to 4 |
| Frequency Range (MHz) | 5 to 42 (DOCSIS), 5 to 65 (EuroDOCSIS) |
| 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 54 dBmV (32 QAM, 64 QAM) +8 to 55 dBmV (8 QAM, 16 QAM) +8 to 58 dBmV (QPSK) |
| | S-CDMA: +8 to +53 dBmV (all modulations) |
| Automatic Level Adjust | Yes |
| Frequency Stability (kHz) | ±5 |
| Output Impedance (Ohms) | 75 |
| Wireless | |
| Transmit Power Output (EIRP) | 18.5dBm +1.5/-1.5dB 802.11g (6mbps); 13.5dBm +1.5/-1.5dB 802.11n (MCS 7) |
| Receive Levels | >-90dBM 802.11b 11mbps; >-76dBm 802.11g 54mbps, >-76dBM 802.11n HT20 |

Antennas Standards

Frequency Range

DOCSIS 3.0, EuroDOCSIS 3.0 ("S" Model) IEEE 802.3, IEEE 802.3ab, IEEE 802.3x

PacketCable™ 1.0 & 1.5

Eurocable PacketCable 1.0 & 1.5

Eurocable PacketCable 1.0 & 1.5

Codec: G.711, 64 kbps, μ and A-law encoded speech

IEEE Std. 802.1p, IEEE 802.1Q

IEEE Std. 802.11b, 1999 Edition

IEEE Std. 802.11g, 2002 Edition

2 transmit and receive

2400-2483.5 MHz

Enhanced codec firmware support (G.726, G.828, G. IEEE Std. 802.11n 729E) UL® 60950

MCS7

T.38 Fax Relay FCC Part 15 Class B

Wi-Fi Alliance Certified™ CE

ROHS

Ordering Information

| Part Number | Description |
|----------------------|---|
| DOCSIS 3.0 Models | Gateway with Integrated 100-240 VAC, 50/60 HZ Power supply with 6 foot power cord . Includes Quick Install Guide, Ethernet Cable, and CD-ROM with users guide |
| 794084 | Touchstone TG862A/CE - CEE 7/16 Euro power plug |
| 794083 | Touchstone TG862A/NA - NEMA 1 power plug |
| 794086 | Touchstone TG862S/CE – Power Switch, CEE 7/16 Euro power plug |
| 796894 | Touchstone TG862A/BR – CEE 7/16 Euro power plug |
| Accessories | |
| 721198 | North American NEMA 1-15 plug Power Cord, 6 foot |
| 721197 | European CEE 7/16 plug Power Cord, 6 foot |

Specifications are subject to change without notice.

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