

Touchstone[®] DOCSIS[®] 3.0 Dual Band Concurrent Wireless Telephony Gateway TG1662G

| Specifications | | | |
|--|---|--|--|
| Physical | | | |
| Operating Temperature °F (°C) | 0 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. | 10.8 x 8.2 x 2.3 - excluding F-connector | | |
| Backup Capacity | 4 cell 2.2AH Lithium-ion for 8 hours operation. (718005 Battery Pack) | | |
| Battery Dimensions in. | 1.2 x 1.95 x 5.5 | | |
| Weight lbs | 2.5 (With Battery included) | | |
| Battery Storage Temperature °F (°C) | -4 to 140 (-20 to 60) Note: Storage above 77°F (25°C) will significantly reduce life of the battery and is not recommended. | | |
| Telemetry | AC Fail, Battery Low, Battery Missing, Replace Battery | | |
| Diagnostic LEDs | Power, US/DS, Online, 2.4GHz, 5GHz, Tel1, Tel2, Battery | | |
| 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-14 ("Line 1/2"), RJ-11 ("Line 2") | | |
| USB Interface | USB 2.0 Powered Host Port | | |
| Input Voltage (nominal) | 115VAC-240VAC, 50/60 Hz | | |
| 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 | Yes (40mA constant current source) | | |
| Programmable Interface for Worldwide Applications | Yes (supports multiple country templates) | | |
| RF Downstream | | | |
| Bonded Channels | Up to 16 | | |
| Tuner Configuration | Full capture tuning range | | |
| Frequency Range (MHz) | 108-1002 | | |
| Carrier Bandwidth (MHz) | 6 | | |
| Modulation (QAM) | 64 or 256 | | |
| Data Rate (Mbps Max.) | Up to 640 | | |
| RF Input Sensitivity Level (dBmV) | -15 to +15 | | |
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Technical Specification

Continue to next page.

ARRIS Technical Specification

Specifications Continued

| RF Upstream | | | |
|---|---|--|--|
| Bonded Channels | Up to 4 | | |
| Frequency Range (MHz) | 5 to 42 | | |
| Modulation | QPSK, 8 QAM, 16 QAI | M, 32 QAM, 64 QAM & 128 QAM (S-CDMA only) | |
| Data Rate (Mbps Max.) | up to 160 | | |
| RF Output Level (dBmV) | ATDMA: +8 to 57 dB 61 dBmV (QPSK) | mV (32 QAM, 64 QAM) +8 to 58dBmV (8 QAM, 16 QAM) +8 to | |
| | S-CDMA: +8 to +56 c | BmV (all modulations) | |
| Automatic Level Adjust | Yes | | |
| Output Impedance (Ohms) | 75 | | |
| Wireless | | | |
| Frequency Range | Simultaneous 2.5GH | Simultaneous 2.5GHz and 5GHZ operation | |
| Transmit Power | 5.0GHz – 26.3 dBm + Includes MiMo additi | 2/-2 dBm 802.11n MCS0 ; 24.3dBm +2/-2dBm 802.11n (MCS7). 2/-2 dBm 802.11n MCS0 ; 26.3 dBm +2/-2dBm 802.11n (MCS7). ive power gains . Total system power is adaptable to maintain he specific band of operation where necessary. | |
| Receive Levels (all bands) | | 2.4GHz - <-86dBM 802.11n (MCS0) , <-74dBm 802.11n (MCS7) 5.0GHz - <-84dBM 802.11n (MCS0) , <-72dBm 802.11n (MCS7) | |
| Spatial Streams | 3 | | |
| Antennas | 3 transmit, and 3 receive (per band) | | |
| Standards | | · | |
| DOCSIS 3.0 | | IEEE Std. 802.11b, 1999 Edition | |
| PacketCable 1.0 & 1.5 | | IEEE Std. 802.11g, 2002 Edition | |
| Codec (64kbps): G.711 μ and A-law encoded speech, | | IEEE Std. 802.11n | |
| Enhanced G.722 HD | | WiFi Alliance Certified | |
| T.38 Fax Relay | | FCC Part 15 Class B | |
| IEEE 802.3, IEEE 802.3ab, IEEE 802.3x | | UL® 60950 | |
| IEEE 802.1p, IEEE 802.1Q | | ETSI and CE ROHS WEE | |

Battery back-up times are typical and can be influenced by the age of the battery, the charging state, storage conditions and operating temperature as well as factors such as data activity and length of active telephone calls. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice. Actual operating range may vary according to environmental conditions at the time of use.

Ordering Information

| Part Number | Description |
|----------------------|---|
| DOCSIS 3.0 Models | Touchstone; TG1662G Wireless eMTA DOCSIS 3.0 16x4, Dual Band Concurrent 3x3:3 802.11n radios, 4 Gigabit Ethernet, 115-240VAC, 50/60 Hz |
| 800944 | Touchstone TG1662G/NA-0, NEMA 1-15 Power Cord, no battery included |
| 800948 | Touchstone TG1662G/NA-8 , NEMA 1-15 Power Cord, 4 cell (#718005) Li-Ion Battery Pack for up to 8 hours of battery back-up |
| 800943 | Touchstone TG1662G/CE-0, CEE 7/16 Euro Power Cord, no battery included |
| 800942 | Touchstone TG1662G/CE-8 , CEE 7/16 Euro Power Cord, 4 cell (#718005) Li-Ion Battery Pack for up to 8 hours of battery back-up |
| Accessories | Please contact ARRIS for Specific Ordering Information and Options |
| | Battery Packs, Power Cords, Wall Mounting Brackets |

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