



Touchstone® DG860A DOCSIS® 3.0 Residential Gateway with 802.11n, 4 Port Router

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 |
| Dimensions (H x W x D) in. | 8 x 8.2 x 2 - excluding F-connector |
| Weight lbs | 1.8 |
| Diagnostic LEDs | Power, DS, US, Online, Ethernet, Wi-Fi®, Secure |

Interfaces

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|---------------------------|---|
| RF Interface | External 'F' type connector |
| Data Interfaces (bridged) | 4 x 10/100/1000 Base-T Ethernet (RJ-45 connector) |
| Input Voltage (nominal) | 100-240 Vac 50/60 Hz |

RF Downstream

| | |
|-----------------------------------|--|
| Bonded Channels | Up to 8 |
| Tuner Configuration | 2 tuning ranges of 96MHz each supporting 8 bonded channels |
| Frequency Range (MHz) | 108-1002 |
| Carrier Bandwidth (MHz) | 6 (DOCSIS) |
| Modulation (QAM) | 64 or 256 |
| Data Rate (Mbps Max.) | Up to 320 DOCSIS |
| RF Input Sensitivity Level (dBmV) | -15 to +15 |

RF Upstream

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|---------------------------------|---|
| Bonded Channels | Up to 4 |
| Frequency Range (MHz) | 5 to 42 (DOCSIS) |
| Modulation (QAM) | 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 Level Stability (kHz) | ±5 |
| Output Impedance (Ohms) | 75 |

Continue to next page.

ARRIS Technical Specification

Specifications Continued

Wireless

| | |
|------------------------------|---|
| Transmit Power Output (EIRP) | 18.5dBm +1.5/-1.5dB 802.11b; 17.5dBm +1.5/-1.5dB 802.11n (MCS 7) |
| Receive Levels | >-86dBm 802.11b 11mbps; >-76dBm 802.11g 54mbps, >-76dBm 802.11n HT20 MCS7 |
| Spatial Streams | 2 |
| Channel Bandwidth | 20MHz and 40MHz |
| Maximum Phy Rate (Mbps) | 300 |
| RF Frequency | 2.4GHz |
| Antennas | 2 transmit and receive |

Standards

| | |
|---------------------------------------|---------------------------------|
| DOCSIS 3.0 | IEEE Std. 802.11g, 2002 Edition |
| Wi-Fi Alliance Certified | IEEE Std. 802.11n |
| ROHS | UL® 60950 |
| IEEE 802.3, IEEE 802.3ab, IEEE 802.3x | FCC Part 15 Class B |
| IEEE 802.1p, IEEE 802.1Q | CE |
| IEEE Std. 802.11b, 1999 Edition | |

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 |
| 796869 | Touchstone DG860A/CE - CEE 7/16 Euro power plug |
| 796868 | Touchstone DG860A/NA - NEMA 1 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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