

TQ-GUARDIAN-A Digital Class A BDA UL2524 Listed



FEATURES

- Improves coverage for Public Safety Radio Network Frequencies (UL: 799-805, 806-816 & DL: 769-775 851-861)
- Class A, 32 channel independently controlled channels per band with Auto Gain Control (AGC) for each channel
- 90 dB gain, 2-Watt system
- Meets the code for NFPA 72/1221 and IFC 510
- UL 2524 Certified and Labeled
- Ethernet port with built-in TowerIQ Sentry™ remote monitoring hardware
- Integrated dry contact 9-pin alarming
- UPS port for external battery backup
- Automatic gain control (AGC) and Oscillation Detection with automatic remediation
- Energy-saving operation allows bands to remain dormant when not in use
- A/C 110V or D/C 24- 30 V power option
- Independently adjustable frequency attenuation for uplink and downlink
- (Reduce gain in -1 dBm increments)
- Industry leading 3-year warranty available

Electrical Specifications

| Electrical | | 700 MHz | 800 MHz |
|--------------------------------------|-----------------------|--------------------------------------|-----------------------|
| Frequency Range, Uplink | | 799 – 805 MHz | 806 – 816 MHz |
| Frequency Range, Downlink | | 769 – 775 MHz | 851 – 861 MHz |
| Channel Bandwidth | | 12.5 / 25 / 75 + 10 MHz (LTE, US) | 12.5 / 25 / 75 MHz |
| Number of Channels | | 32 | 32 |
| Total Output Power, Uplink | | 27 dBm | 27 dBm |
| Total Output Power, Downlink | | 33 dBm | 33 dBm |
| Maximum System Gain | | 90 dB | 90 dB |
| Gain Adjustment Range (1 dB step) | | 0-50 dB | 0-50 dB |
| Pass Band Ripple, p-p | | ≤5 dB | ≤5 dB |
| Uplink Noise Figure | | ≤5 dB | ≤5 dB |
| System Group Delay | | ≤35 usec | ≤35 usec |
| Intermodu | lation | ≤-13 dBm | ≤-13 dBm |
| Spurious | 9 kHz to 1 GHz | FCC Compliance | FCC Compliance |
| | 1 GHz to 12.75 GHz | FCC Compliance | FCC Compliance |
| Absolute Maximum RF Input Power | | -10 dBm | -10 dBm |
| Impedance | | 50 Ω | 50 Ω |
| | | | |

Technical Specifications

| Certifications | FCC: ID 2AXVJPSBG-2A Part 90 UL: 2524 |
|--------------------------|---|
| Dimensions | 21.2 x 17.2 x 8.0 in |
| Enclosure cooling | Convection |
| Environmental Class | Туре 4 |
| Operating Humidity | 95% |
| Operating Temperature | -27 to +140°F (-33 to +60°C) |
| Power Consumption | Single band: 60W Dual band: 80W |
| Devuer Surelu | AC: 100-240/50-60 Hz |
| Power Supply | DC: 24-30 V |
| RF Connections | N Female |
| Weight | 45.9 lbs (53 lbs shipped) |

WARNING

THIS IS NOT A CONSUMER DEVICE. IT IS DESIGNED FOR INSTALLATION BY FCC LICENSEES AND QUALIFIED INSTALLERS. USERS MUST HAVE AN FCC LICENSE OR THE EXPRESS CONSENT OF AN FCC LICENSEE TO OPERATE THIS DEVICE.

UNAUTHORIZED USE MAY RESULT IN SIGNIFICANT FORFEITURE PENALTIES, INCLUDING PENALTIES IN EXCESS OF \$100,000 FOR EACH CONTINUING VIOLATION.

Part 90 Signal Boosters. THIS IS A 90.219 CLASS A DEVICE.

Ordering Information

| Model | Description | Stock No. |
|---------------|---|-----------|
| TQ-GUARDIAN-A | 2W Class A Channelized Public Safety Booster for PS 700/800/FirstNet / 32 Channels / 90dB / UL 2524 NEMA 4 Rated. | 3996113 |