MARK-IV Broadband Band-Selective Signal Booster
TETRA & TETRAPOL

Part 90 Signal Boosters THIS IS A 90.219 CLASS B DEVICE

WARNING. This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device. You MUST register Class B signal boosters (as defined in 47 CFR 90.219) online at www.fcc.gov/signal-boosters/registration. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of $100,000 for each continuing violation.”

Model: M4BBDA

Canam’s Broadband Bi-Directional Amplifiers are Class-B Signal Boosters per FCC 90.7 definition. They are designed to boost trunking or conventional two-way radio signals in order to extend the radio coverage in shadowed/enclosed areas.

Exceptional performance, long term reliability, and high efficiency are achieved by employing advanced matching networks and combining techniques, EMI/RFI filters, machined housings, and qualified components.

An Optional RF/optical transceiver with a very wide Dynamic is available for RF over Fiber interface (single mode). Average Automatic Power Control (AAPC) is incorporated for optimal optical power stability over the full temperature range.

Features & Applications:

- Custom-build sub-bands VHF, UHF, 700 MHz, 800 MHz.
- Bi-Directional Design, separate RF paths for Uplink and Downlink bands.
- Suitable for analog/conventional/trunking or digital modulations. APCO-P25, TETRA, TETRAPOL, NXDN, etc.
- Multi-Carrier Power Amplifier (MCPA) modules with very-high OIP3= +53 dBm typical and built-in output isolator for infinite mismatch open load protection. (> +50 dBm at system output after custom BPF loss)
- Built-in Forward and Reverse power detector monitors.
- Rackmount enclosure with forced ventilation
- Optional Wall-mount. NEMA-12 (NEMA 4X on request)
- Universal Auto-sensing power supplies with EMI filtering.
- Additional fail-safe alarms (Form C dry-contact relays and opto-isolated inputs) for remote monitoring.
- Automatic Level Control (ALC) in both the Uplink and Downlink paths. Protect the FO input in the Uplink path and compensate for power level variations in the downlink path due to changes in the optical link.
- Non-spurious ALC circuits can operate in the OLC range all-the-time.
- TCP/IP connectivity with web-server and SNMPv2 agent.
- Modular design.
- Optional Fiber-optic transceivers allow the transmission of RF to greater distances using Single-mode optical links, with separate Tx/Rx Fiber link at 1310 nm wavelength.