Public Safety BDA for 700 AND 800 MHz 2W CLASS A AC

- Compact, high-performance, economical public safety signal source
- Complies with relevant public safety specifications
- High performance digital programmable architecture supports up to 32 channels per band with .5W and 2W power output
- Automatic Gain Control (AGC) and channelized uplink squelch ensure clear voice transmission
- Output power and band capacity can be field-upgraded via license key
- Web-based GUI and SNMP support for intelligent configuration and monitoring

Product Classification

| Product Type            | Public safety RF repeater unit |

General Specifications

| Antenna Interface at Repeater | 4.3-10 |
| Indoor Antenna              | Optional, not included |
| Optional Antenna Gain       | 4 dBi   |
| Optional Antenna Type       | Omni    |
| Performance Note            | Values typical, unless otherwise stated |
| Supervision/Control Option  | Dry alarm contacts  | Remote control via Ethernet |

Dimensions

| Height        | 480 mm | 18.898 in |
| Width         | 400 mm | 15.748 in |
| Optional Antenna Length | 90 mm  | 3.543 in  |
| Depth         | 170 mm | 6.693 in  |

Outline Drawing
Electrical Specifications

**Electrical Safety Standard**
- CAN/CSA-C22.2 No. 62368-1
- UL 2524 compliant
- UL 62368
- US FCC Part 20
- US FCC Part 90

**Gain**
90 dB

**Gain Adjustment Range**
30 dB

**Group Delay, maximum, specific**
- 3 µs @ full band
- 90 µs @ 12.5 kHz

**License Band**
- 700 (including FirstNet)
- 800

**Local Power**
110 Vac

**Mains Power**
110VAC/60Hz

**Return Loss**
13 dB

**Power Consumption**
160 W

### Electrical Specifications, Rx (Uplink)

**Operating Frequency Band**
- 788 – 798 MHz (FirstNet)
- 788 – 805 MHz
- 796 – 824 MHz

**Output Power @ One Carrier**
27 dBm

**Output Power @ Two Carriers**
24 dBm

### Electrical Specifications, Tx (Downlink)
Operating Frequency Band
758 – 768 MHz (FirstNet)  |  758 – 775 MHz  |  851 – 869 MHz

Output Power @ One Carrier
33 dBm

Output Power @ Two Carriers
30 dBm

Environmental Specifications

Operating Temperature
-30 °C to +50 °C (-22 °F to +122 °F)

Ingress Protection Test Method
IEC 60529:2001, IP66  |  NEMA 4X

Packaging and Weights

Weight, net
19 kg  |  41.888 lb

Regulatory Compliance/Certifications

Agency
ISO 9001:2015

Classification
Designed, manufactured and/or distributed under this quality management system

* Footnotes

EVM
Error Vector Magnitude