Public Safety BDA for 700 or 800 MHz 2W CLASS A DC

- 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**

<table>
<thead>
<tr>
<th></th>
<th>Height</th>
<th>Width</th>
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<tbody>
<tr>
<td></td>
<td>480 mm</td>
<td>18.898 in</td>
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<tr>
<td></td>
<td>400 mm</td>
<td>15.748 in</td>
</tr>
<tr>
<td></td>
<td>90 mm</td>
<td>3.543 in</td>
</tr>
<tr>
<td></td>
<td>170 mm</td>
<td>6.693 in</td>
</tr>
</tbody>
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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**
-48 Vdc

**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