



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

- Compact, high-performance, economical public safety signal source
- UL2524 Certified – UL File S36319
- 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
- NFPA 1221 and IFC compliant
- Built-in automatic donor antenna supervision
- Automatic oscillation detection and self-healing mechanism
- Short installation time due to built-in isolation test, alarm test and one click summary report

## Product Classification

**Product Type** Public safety RF repeater unit

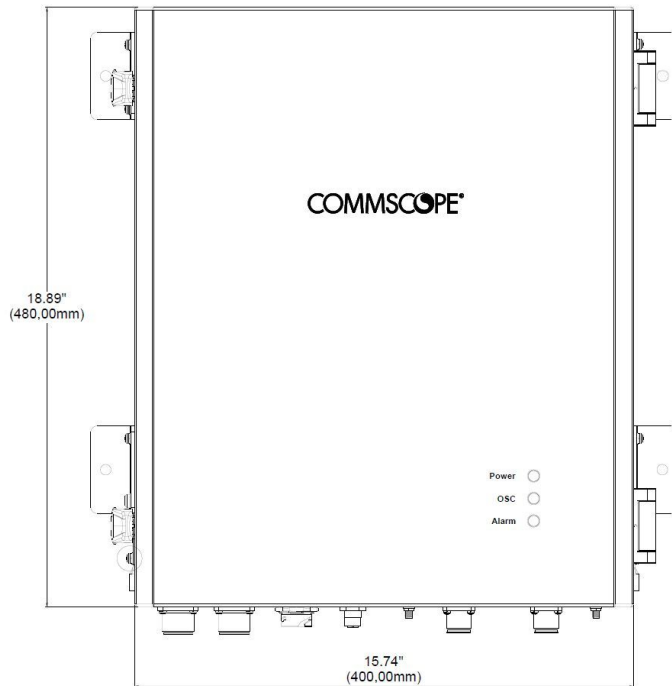
## General Specifications

<b>Antenna Interface at Repeater</b>	4.3-10
<b>Indoor Antenna</b>	Optional, not included
<b>Optional Antenna Gain</b>	4 dBi
<b>Optional Antenna Type</b>	Omni
<b>Performance Note</b>	Values typical, unless otherwise stated
<b>Supervision/Control Option</b>	Dry alarm contacts with 2.2k Ohm EOL resistors   Remote control via Ethernet

## Dimensions

<b>Height</b>	480 mm   18.898 in
<b>Width</b>	400 mm   15.748 in
<b>Depth</b>	170 mm   6.693 in
<b>Optional Antenna Length</b>	90 mm   3.543 in

## Outline Drawing



## Electrical Specifications

### Electrical Safety Standard

CAN/CSA-C22.2 No. 62368-1 | UL 2524 Certified | UL 62368 | US FCC Part 20 | US FCC Part 90

### Gain, typical

90 dB

### Gain Adjustment Range

30 dB

### Group Delay, maximum, specific

3  $\mu$ s @ full band | 90  $\mu$ s @ 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

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<b>Output Power @ One Carrier</b>	33 dBm
<b>Output Power @ Two Carriers</b>	30 dBm

## Environmental Specifications

<b>Operating Temperature</b>	-30 °C to +50 °C (-22 °F to +122 °F)
<b>Ingress Protection Test Method</b>	IEC 60529:2001, IP66   NEMA 4X   UL 2524 Certified   UL Type 4

## Packaging and Weights

<b>Weight, net</b>	19 kg   41.888 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

