



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

- 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

Antenna Interface at Repeater 4.3-10

Indoor Antenna Optional, not included

Performance Note Values typical, unless otherwise stated

Supervision/Control Option Dry alarm contacts with 2.2k Ohm EOL resistors | Remote control via Ethernet

Dimensions

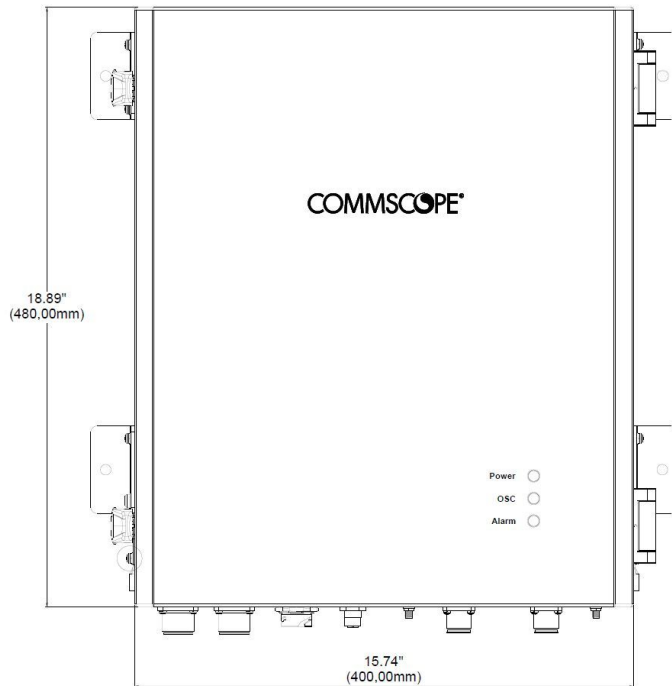
Height 480 mm | 18.898 in

Width 400 mm | 15.748 in

Depth 170 mm | 6.693 in

Optional Antenna Length 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 μ s @ full band | 90 μ s @ 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)

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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 UL 2524 Certified UL Type 4

Packaging and Weights

Weight, net	19 kg 41.888 lb
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Regulatory Compliance/Certifications

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

