



Public Safety BDA for 700 or 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

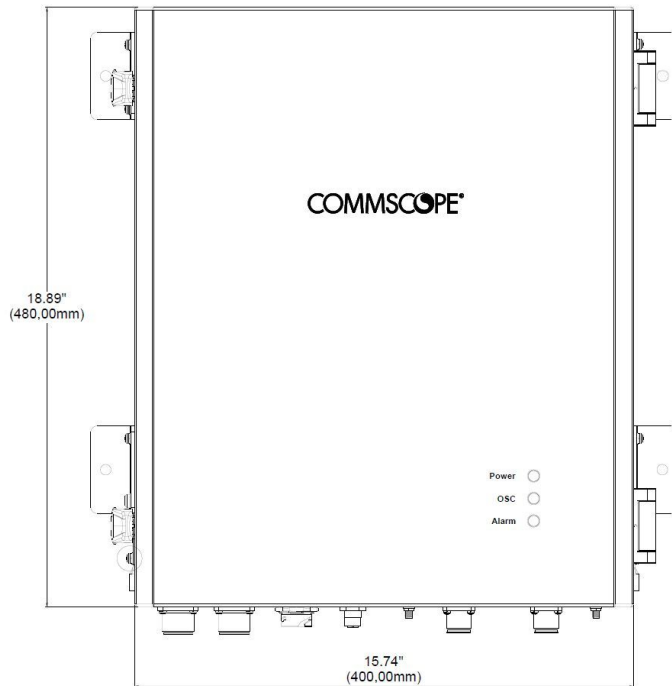
General Specifications

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 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

-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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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

