



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

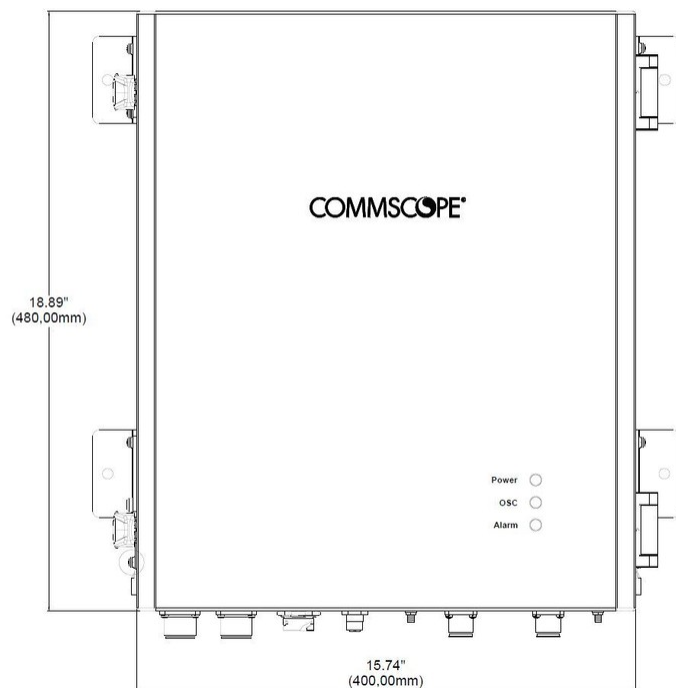
General Specifications

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

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 compliant UL 62368 US FCC Part 20 US FCC Part 90
Gain	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
---------------------------------	--

7831758-0002

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



* Footnotes

EVM	Error Vector Magnitude
------------	------------------------