7831851-0023

Public Safety BDA for 700 AND 800 MHZ 0.5W CLASS B 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

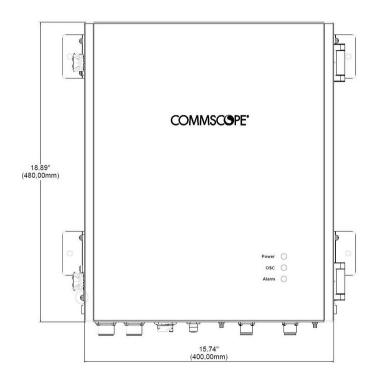|	
Antenna Interface at Repeater	4.3-10
Indoor Antenna	Optional, not included
Optional Antenna Gain	4 dBi
Optional Antenna Type	Omni
Performance Note	Values typical, unless otherwise stated
Supervision/Control Option	Dry alarm contacts | Remote control via Ethernet

Dimensions

Height	480 mm | 18.898 in
Width	400 mm | 15.748 in
Optional Antenna Length	90 mm | 3.543 in
Depth	170 mm | 6.693 in

Outline Drawing

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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

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

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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	27 dBm
Output Power @ Two Carriers	24 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

ISO 9001:2015

* Footnotes

EVM	Error Vector Magnitude

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