

Public Safety BDA

Dual Band | 1W / 3W / 5W Power Options

A Dual Band Bi-Directional Amplifier system that supports indoor public safety wireless services. Base configuration is Class B, 1 Watt DL per band. Common hardware platform for Class A/B, 1W / 3W / 5W DL power outputs. Three outdoor antenna ports to target multiple carrier towers.

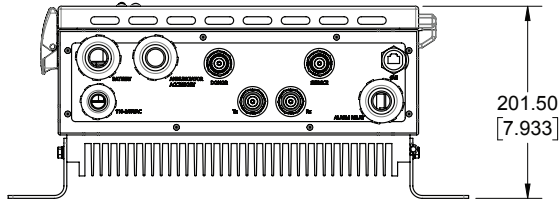
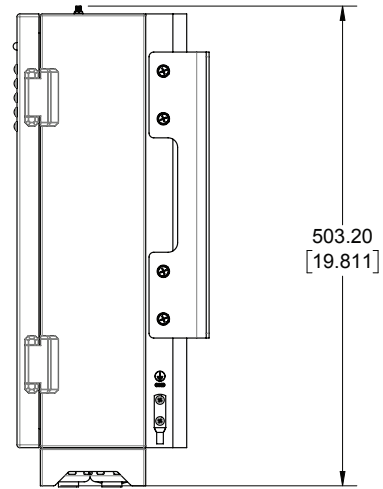
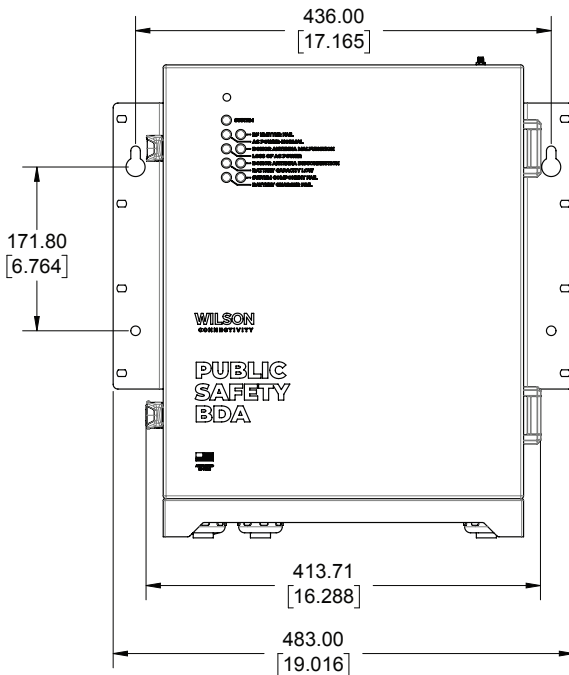
- PS-LTE (FirstNet) and P25-Phase 2 TDMA support
- Supports 700 MHz / 800 MHz dual band
- BDA supports wall or rack mounting
- Isolation/oscillation detection and protection
- Local annunciator for FACP, and web-based monitoring
- Optional remote annunciator or internal LTE modem
- 12/24-hour battery backup
- Class A supports 64 narrow-band filters (32 per band)
- Class B supports 8 wide-band filters (4 per band)



Mechanical Specifications	
Model	770001 (no modem) 771001 (with LTE modem)
Color	Powder Coat Matte Red
Enclosure	IP66 / NEMA4 / Natural Convection
Dimensions	14.88 x 19.48 x 7.0 (in.) / 378 x 495 x 178 (mm)
Weight	66.13 (lbs.) / 30 (kg) (without bracket)
Mounting	Wall Mount or Rack Mount
Donor / Service Port	4.3-10 Female (antenna)
Tx / Rx Port	4.3-10 Female (DAS)
Modem Port	SMA Female (for LTE Modem)
Ethernet Connector	RJ-45
Dry Contacts Connector	8 NO/NC (BR-762C)
AC Input Connector	DG126-5.0-05P-14
Battery Connector	DG126-5.0-03P-14
Front Panel LED Indicators	9 total (System Status; AC Power Normal; Loss of AC Power; Battery Capacity Low; Battery Charger Fail; RF Emitter Fail; Donor Antenna Malfuction; Donor Antenna Disconnection; System Component Fail)

Detailed Specifications	
Max DL Output Power	30 dBm / 1W 35 dBm / 3W 37 dBm / 5W
Max UL Output Power	27 dBm / 0.5W per band
Input Dynamic Range Downlink	-53dBm ~ +7dBm
Input Dynamic Range Uplink	-53dBm ~ +7dBm
User Settable Gain Range	60dB ~ 90dB (downlink) 50dB ~ 80dB (uplink)
Gain Adjustment Range	30dB / 1dB steps
Gain Adjust Accuracy	±1dB
Input AGC Dynamic Range	60dB
Absolute Max RF Input Power without Damage	+10dBm
Max RF Input Power with Normal Operation	+7dBm
Noise figure	< 6dB (uplink)
Pass Band Ripple	3dB (max)
EVM & LTE	≤ 4.0% @LTE
Frequency Stability	≤ ±0.01ppm
Squelch Threshold	-90dBm ~ -60dBm
VSWR	≤ 1.5:1
Spurious Emission	≤ -13dBm (FCC Title 47 Part 90.219)
Intermodulation	≤ -13dBm
Characteristic Impedance	50Ω
Coupling Port Output	-30dBm ±1.5dB
Rated AC Power Input	110 ~ 240VAC, 50/60Hz
Rated DC Battery Input	24VDC (12VDC Battery * 2)
Power Consumption	< 250W
Operating Temperature	-30 ~ +50°C (-22 ~ 122°F)

Ordering Information / Software Keys / Accessories	
770001	Public Safety BDA Base Platform - No Modem - Class B, 1W DL base configuration
771001	Public Safety BDA Base Platform - With LTE Modem - Class B, 1W DL base configuration
770050 / 770051	Class B power upgrade licenses - 3W / 5W
770052 / 770053 / 770054	Class A licenses - 1W / 3W / 5W
770100	700 MHz FirstNet Support Enablement License
780001	Remote Annunciator - local alarm visibility and status monitoring
770002 / 771002 / 772002	Battery backup options - enclosure only / 12-hour kit / 24-hour kit



Support



3 YEAR WARRANTY FROM PURCHASE

US Web: wilsonconnectivity.com

INTL Phone: +44 1223 982031

US Phone: +1 800 871 1612

[Download the Wilson Vex Files](https://cdn.amplifi.pattern.com/48d3de0a-1a44-4268-9986-6e6bf26d5ca0)

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770001

No Modem



771001

with LTE Modem

