



# Class A (800 MHz) Public Safety BDAs

## General Information

Westell's digital Class A Public Safety BDAs support 800 MHz improving the quality of critical communications for first responders. Westell's Class A BDAs are UL-Listed and can handle a larger coverage area because of their higher power. Our public safety BDAs are an integral part of any NFPA complaint ERRCS (Emergency Responder Radio Enhancement System).

Westell's Class A BDAs support 32 channels (uplink and downlink), near/far mitigation, an integrated spectrum analyzer, and is compliant with NFPA code.

### Frequency Range

- Uplink: 806-824 MHz
- Downlink: 851-869 MHz

### Product Highlights

- Digital Class A
- Channel Selective
- 37 dBm (5 Watts)
- Supports up to 32 Channels (Uplink and Downlink)
- NFPA 1221 & 72 (2016) compliant
- IP67/NEMA 4X enclosure
- Uplink and Downlink squelch, per channel
- UL Listed
- Independent power and gain control per filter
- 80 dB Gain
- Integrated spectrum analyzer
- Dry Contacts for fire panel connection
- Supports SNMP
- Web-Based GUI



CS33-837- 8NA - Pictured

### Supported Alarms

- Power Amplifier Status
- Power Supply Failure
- AGC
- Temperature
- RF Overdrive
- Isolation / Oscillation
- Donor Antenna Failure

### Ordering Information

CS33-837-8NA	Class A, 800 MHz Public Safety, 80 dB gain, 5W, AC Power
CS33-837-8ND	Class A, 800 MHz Public Safety, 80 dB gain, 5W, DC Power



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# Class A 800 MHz Public Safety BDAs



## Electrical Specifications

Downlink Output Power	37 dBm (5 Watts)
Uplink Power	24 dBm (1/4 Watt)
Channels Supported	Up to 32 Uplink and Downlink
Gain	80 dB
Gain Adjustment Range	20dB plus 40dB individually per filter
Passband	Channel Selective (90 KHz, 60 KHz, 45 KHz, 30 KHz, 20 KHz, and 15 KHz)
IMD	<-13 dBm
Noise Figure	< 9.0 dB Max @ max gain
Delay	90 KHz, 15µs 60 KHz, 19µs 45 KHz, 24µs 30 KHz, 32µs 20 KHz, 45µs 15 KHz, 55µs
Input Power (w/o Damage)	0 dBm Uplink (Max) -20 dBm Downlink (Max)
Commercial Power Requirements	AC (110/220 VAC) or DC (+24VDC to -48VDC)
Power Consumption	AC 140W typ, 190W max DC 140W typ, 170W max

## Mechanical Specifications

Dimensions (HxWxD)	20.2 x 18.2 x 9 inches
Weight	55 lbs.
Cooling	Passive
Weatherproofing	IP-67/NEMA 4X
Connectors	
Antenna Ports	N-Type Female
User Interface	Ethernet or USB
Alarm Relay	8-Wire Dry Contact Terminal Block (Max current 500mA)
Operating Temperature	-25° to +50° C
Mounting	Wall, Rack or Pole mounting



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