Class A (700/800 MHz) Dual-Band Public Safety Signal Booster

General Information

Westell's digital Class A Signal Booster supports 700/800 MHz improving the quality of critical communications for first responders.

Westell's digital Class A Signal Boosters can handle a larger coverage area because of their higher power, and supports 32 channels per band (uplink and downlink), near/far mitigation, an integrated spectrum analyzer, and is compliant with NFPA code.

Frequency Range

- Uplink: 788-805 / 794-806 / 806-824 MHz
- Downlink: 758-775 / 764-776 / 851-869 MHz

Product Highlights

- Digital Class A
- Channel Selective
- 33 dBm (2 Watts per band)
- Supports up to 32 Channels per band (Uplink and Downlink)
- NFPA 1221 & 72 (2016) compliant
- IP67/NEMA 4X enclosure
- Uplink and Downlink squelch, per channel
- FirstNet Ready
- 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
- Software adjustable for US or Canadian 700MHz band plan

CS33-734834-DNA - *Pictured*

Supported Alarms

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

Ordering Information

CS33-734834-DNA	Class A, 700/800 Public Safety, 80 dB gain, 2W per band, AC Power.
CS33-734834-DND	Class A, 700/800 Public Safety, 80 dB gain, 2W per band, DC Power

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Electrical Specifications

Downlink Output Power	33 dBm (2 Watts per band)
Uplink Output Power	21 dBm
Channels Supported	Up to 32 Uplink per band Up to 32 Downlink per band When Firstnet enabled supports: Up to 30 Uplink on 700 band Up to 30 Downlink on 700 band
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 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	180W typ, 200W max

Mechanical Specifications

Dimensions (HxWxD)	20.2 x 18.2 x 9 inches
Weight	60 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 500 mA)
Operating Temperature	-25° to +50° C
Mounting	Wall, Rack or Pole mounting

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