Class A (700 MHz)
Public Safety Signal Booster

General Information

Westell's digital Class A Signal Booster supports 700 MHz improving the quality of critical communications for first responders. Extended 700Mhz band includes Firstnet band 14 coverage.

Westell's digital Class A Signal Boosters can handle a larger coverage area because of their higher power, and supports 30 channels (uplink and downlink), near/far mitigation, an integrated spectrum analyzer, and is compliant with NFPA code.

Frequency Range

• Uplink: 788-805 or 794-806 MHz

• Downlink: 758-775 or 764-776 MHz

Product Highlights

• Digital Class A

• Channel Selective

• 37 dBm (5 Watts)

• Supports up to 30 Channels with FirstNet (Uplink and Downlink) - 32 Channels if Firstnet included

• NFPA 1221 & 72 (2016) compliant

• IP67/NEMA 4X enclosure

• Uplink and Downlink squelch, per channel

• FirstNet Ready

• Independent power and gain control per filter

• UL Listed

• 80 dB Gain

• Integrated spectrum analyzer

• Dry Contacts for fire panel connection

• Supports SNMP

• Web-Based GUI

• Software adjustable to US or Canadian band plans

CS33-737-7NA - *Pictured*

Supported Alarms

• Power Amplifier Status

• Power Supply Failure

• AGC

• Temperature

• RF Overdrive

• Isolation / Oscillation

• Donor Antenna Failure

Ordering Information

CS33-737-7NA	Class A, 700 MHz Public Safety, 80 dB gain, 5W, AC Power
CS33-737-7ND	Class A, 700 MHz Public Safety, 80 dB gain, 5W, DC Power

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Class A 700 MHz Public Safety Signal Booster

Electrical Specifications

Downlink Output Power	37 dBm (5 Watts)
Uplink Output Power	24 dBm (1/4 Watt)
Channels Supported	With Firstnet enabled supports: Up to 30 Uplink Up to 30 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)
Operational Input Power	0 dBm Uplink (Max) -35 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