Model PS51080-SNMP
NFPA Public Safety Signal Booster

General Information

The PS51080-SNMP is an in-building repeater that will meet both the existing public safety communications regulations and future mandates for emergency and disaster preparedness communications.

Model PS51080-SNMP is NFPA-code compliant with NEMA Type 4 enclosure, independent control of the 700 and 800 MHz bands.

Frequency Range

- Uplink 788-805/806-809 or 806-816 MHz
- Downlink 758-775/851-854 or 851-861 MHz

Product Features

- NFPA 72/1221 compliant Class B Amplifier
  - Compact red NEMA Type 4 enclosure
  - VSWR Antenna Detection
- UL Listed
- FirstNet Ready
- Energy efficient (less load for battery backup)
- 700 and 800 MHz bands independently controlled
- Passband options
  - 17 MHz: 788-805 / 758-775 MHz
  - 3 MHz: 806-809 / 851-854 MHz
  - 10 MHz: 806-816 / 851-861 MHz
- Independent power and gain control per band
- Sharp SAW filtering reduces interference from competing signals
- Easy to install and maintain
- Dry Contacts for Fire panel connection
- 80 dB gain
- 27 dBm (½ Watt)
- Supports SNMP
- Supports digital and analog modulation including P25 phase 1 & 2

Oscillation Detection and Automatic Gain Control (AGC)

- Built-in oscillation control and self-healing
- Shutdown in the event of non-correctable severe conditions

PS51080-SNMP NFPA Public Safety Signal Booster

Ordering Information

CS14-710-810	PS51080 .5W BDA (Direct Replacement for CS14-700-800)

Alarms

- System (PLL)
- Isolation
- PA Shutdown (UL/DL)
- Power Failure
- Antenna DL VSWR (Can be disabled)
- Antenna UL VSWR (Can be disabled)
- Manual Amp off
- All alarms trigger Summary Dry contact

Supported LED Status

- Power
- Isolation
- Oscillation (OSC)
- Alarm

WESTELL

Electrical Specifications

Power Requirements	0.5 Amps @ 110 VAC – 60 Hz
Linear Output Power	27 dBm
Noise Figure @ Max Gain	<5 dB, Typical
AGC Dynamic Range	25 dB
Propagation Delay	<4 µsec
Gain Adjustment Range	30 dB, 1 dB Steps
VSWR	< 2:1

Mechanical Specifications

Dimensions (L x H x D)	11.46 x 16.76 x 3.23 in
Weight	14.5 lbs.
Weatherproofing	IP65, NEMA Type 4
Connectors	
Antenna Ports	N-Female
User Interface (GUI)	RJ-45
Alarm Relay	9P D-SUB, Female
Operating Temperature	-30° to 50° C

DRY Contact Alarms

Alarm One	AC Power/System
Alarm Two	Active RF Emitting Device Malfunction
Alarm Three	Donor/Server Antenna Malfunction