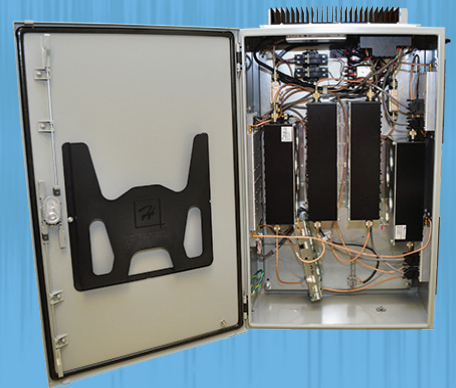




Digital Signal Booster III

614 Series



The RF Experts

The Digital Signal Booster operates in the UHF frequency band with 14-28 programmable digital filters for both uplink and downlink. Filter center frequency and characteristics are fully programmable to meet the demands of various systems and signals. Filter bandwidth is user programmable from 6.25 kHz to 1.5 MHz. All state-of-the-art product components are protected by a NEMA 4 style enclosure. Intuitive web browser interface allows the booster to be easily configured for changing RF environments.

FEATURES

View Current RF Spectrum

- View the signal interferers.
- View the RF spectrum while configuring the digital filters.
- View the shape of the defined digital filter(s) around the actual desired signal(s) as an overlay onto the spectrum.
- View signal output rejection.
- No extra hardware or software required.

Oscillation Detection and Management:

- The Signal Booster will detect signal oscillation and handle the condition based on a user selected action.

SNMP 3.0

- Uses the most secure SNMP version available today to trap and send system performance information to an SNMP Manager.

Digital Filtering

- The signal booster can amplify several individual channels or narrow bands of frequencies only amplifying the desired spectrum and preventing interference to other user signals.

Local and Remote Access

- An intuitive web browser user interface offers not only local but also remote access from any compatible PC on the network.

Pilot Signal

- Built-in pilot signal capability offers system coverage assessment. The 1 kHz FM modulated carrier allows simple SINAD qualification testing.

APPLICATIONS

The signal booster provides Public Safety grade reliability and coverage in challenging disadvantaged RF conditions.

Use as head-end booster for a system that is donored "off the air" in an RF congested area.

One Signal booster can connect to any number of broadband boosters (SBII+ or SBI).

Minimizes noise and interference potential in urban RF congested areas.

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OPERATING CHARACTERISTICS

Filters	14-28 uplink filters per band 14-28 downlink filters per band
Frequency Bands*	450-470 MHz 470-488 MHz
Filter Bandwidth	Programmable standard filters include 12.5 kHz, 12.5 kHz low delay, 25 kHz, 100 kHz. Other custom filters can be configured by the user or factory to meet specific system requirements.
Maximum Gain	95 dB
Output Power	
High Power	+32 dBm
Low Power	+22 dBm
Maximum Input Level	-20 dBm
RF Input/Output impedance	50 Ohms nominal
External RF Connectors	N - Female
Alarms	Form-C Contacts (NO or NC))
Control & monitoring	Intuitive web browser interface over an Ethernet connection, SNMP 3.0 for trap messages local individual module status LED's.
Power	90-250 VAC, 50/60 Hz or +24 VDC
Operating Temperature Range	-30 °C to +60 °C
Enclosure Type	Modified NEMA 4 w/o Fans
Enclosure Dimensions Single Band	30" x 20" x 10"
Weight	95lbs. single band
FCC Certification**	EZZ61470 (450-470 MHz) EZZ61470A (470-488 MHz)
Industry Canada Certification**	1940A-61470 (450-470 MHz) 1940A-61470A (470-488 MHz)



OPTIONS

Battery Backup Unit for 12 hrs 6160-110-24-NR

Battery Backup Unit for 24 hrs 6160-220-24-NR

* Supports 28 filters within a single 3 MHz Bandwidth for either 450-460 MHz or 460-470 MHz

* Supports 28 filters within a single 1.5 MHz Bandwidth for 470-488 MHz

**Class A or B Type booster equipment (depending on how it is configured) is authorized under FCC Rules Part 90,
Canada Certification Part RSS-131

Please use this Selection Guide to create the Signal Booster that meets your needs.

SBIII 450-470, 470-488 SERIES SELECTION GUIDE

614 - _____ - _____ - _____ - _____ - _____

Example: 614-70-A-HH-G1A = Digital Signal Booster, 450-470 MHz, 14 Filters, High Power UL / High Power DL, Gray Steel

Product Type	Frequency Band	# Filters	Channel Power	Enclosure
614 = UHF Digital Signal Booster	70 = 450-470 MHz 70A = 470-488 MHz	A = 14 Filters B = 28 Filters	HH = High Power UL/High Power DL HL = High Power UL/Low Power DL LH = Low Power UL/High Power DL LL = Low Power UL/Low Power DL	G1A = Gray Steel G2A = Stainless

Please Contact Factory 716.549.4700 for non-standard configurations with custom frequency, windows or bandwidth.
Desired frequencies MUST be provided with order.

