

SIGNAL BOOSTER

UHF, 700, 800 MHz

SBII+ SERIES

Mission Critical Reliability

The Signal Booster II+ from Bird provides Public Safety grade signal reliability and coverage in disadvantaged RF locations lacking in critical signal strength. Design innovations have delivered a light, compact design that provides more consistent and powerful signal coverage and amplification than ever before. New software capabilities provide critical local and remote status information allowing for real-time monitoring of critical systems.

SBII+ is compatible with all Public Safety radio technologies including conventional analog, P25 standard, and public safety LTE.

PRODUCT FEATURES

- The web browser user interface allows for local and network configuration.
- SNMP to send system status trap messages to an SNMP Manager.
- Easily perform remote firmware updates.
- Built in oscillation management and detection with multiple user configurable choices.
- On board LED displays and remote OLC monitoring capability.
- Filtering is included to support most RF environments.
- Multiple power configurations: AC primary, DC primary or AC primary with DC backup.
- NFPA/IFC option includes all the alarms and battery backup configuration options to comply with the standards.
- Connections available in both external and conduit versions as required by your local codes.
- Custom models available.



CONNECTION OPTIONS



External



Conduit

NFPA/IFC OPTIONS



▪ **6150-ALM-01**
Local alarm panel for
Form C alarm inputs



▪ **6160-110-24-NR**
110 Amp-hour,
minimum 12 hour
battery backup units

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Specifications

SYSTEM

Gain	80 dB
Gain Range (dB)	35 dB to 80 dB in 0.5 dB steps
Maximum Output Power	
450 to 512 MHz	32 dBm UL/DL (composite)
764 to 869 MHz	33 dBm UL/DL (composite)
Maximum Input Level	-20 dBm
RF Sampler	40 dB typ.
Nominal impedance	50 Ohms, <1.5:1 VSWR
Propagation Delay	<0.5 μs
AC/DC Power Supply	100-240 VAC; 50-60 Hz, +24 VDC nominal, UL rated
Unit Power Consumption (AC/DC)	75 W (3 Amps at 24 VDC)

CONNECTORS

Input/Output connectors	N (f)
RF Sampler Connectors	BNC (f)

PHYSICAL

Size / Weight	
700/800 MHz	18.1 in x 14 in x 6.5 in, 45 lb
UHF, 700/800 Dual Band	24 in x 17.5 in x 9 in, 90 lb
Enclosure	NEMA 4

ENVIRONMENTAL

Operating Temperature	-30 °C to 50 °C
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CERTIFICATIONS

	FCC*	Industry Canada*
UHF	EZZ26076	1940A - 26076
700 MHz	EZZ26075	1940A - 26075
800 MHz	EZZ25999	1940A - 25999

NFPA OPTIONS

6160-110-24-NR	110 Amp-hour, battery backup for: Single Band, 24 hour minimum Dual Band, 12 hour minimum
6160-220-24-NR	220 Amp-hour, battery backup for all standard SBII+ models, 24 hour minimum
6150-ALM-01	Local alarm panel for Form C alarm inputs

PRODUCT SELECTION GUIDE

Example: 63A-89C-2-A-G-2-N = Signal Booster II+, 806-861 MHz, 2-Way, 80 Gain, Bandwidth 3.0 MHz, Red NEMA 4 Case, NFPA

Note: Not all combinations are valid. If assistance is needed consult the factory to define the model that is right for you.

Product Type	Band	Direction	Gain	Filter Bandwidth	NEMA 4 Enclosure	Options
63 = Conduit	70 = 450 to 470 MHz	2 = 2-Way	A = 80	B = 0.5 MHz	2 = Red	N = NFPA
63A = External	69 = 470 to 512 MHz			D = 1.0 MHz		
	82P = 763 to 805 MHz			F = 2.0 MHz		
	83B = 764 to 806 MHz			B = 0.5 MHz		
	89C = 806 to 861 MHz			D = 1.0 MHz		
	89A = 806 to 869 MHz ¹			P = 12 MHz		
	82R = 763 to 861 MHz			P = 12 MHz		
	83E = 764 to 869 MHz ¹			G = 3.0 MHz		
		N = 10 MHz				
		R = 18 MHz				
		PG = 12, 3 MHz				
		PN = 12, 10 MHz				
		PN = 12, 10 MHz				
		PR = 12, 18 MHz				

Please Contact Factory for non-standard configurations with custom frequency, windows and bandwidth. Frequencies MUST be provided with order.

* Class B Type Booster. Type Acceptance under FCC Rules Part 90 and Industry Canada Certification Part RSS-131.

¹The 18 MHz models may not be authorized in your area due to a recent FCC Rule Change.

Warning: This is NOT a CONSUMER device. It is designed for installation by FCC Licensees and Qualified Installers. You must have an FCC license or express consent of an FCC Licensee to operate this device. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each violation.

birdrf.com/products

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