

PS 700 + PS 800 DIGITAL SIGNAL BOOSTERS

HONBDA-A HONBDA-D

Product Features

- Supports Public Safety 700 & 800 MHz in single or dual band versions
- FirstNet Band 14 available
- Channel Selective, software programmable or adjustable bandwidths
- Fully digital signal boosters, FPGA based
- US and Canada 700MHz band compatible, software adjustable
- Auto diagnostic
- Uplink and downlink squelch, per channel and per time slot on channel selective mode
- User adjustable gain control, UL and DL independent, per band, per channel and per time slot on channel selective mode
- Automatic gain control per band, per channel, per time slot
- Oscillation detection with alarm and auto-shutdown
- Antenna Isolation measurement feature
- Antenna Isolation alarm
- Built-in input and output spectrum analyzer
- Weatherproof enclosure, IP67/NEMA4X
- NFPA compliant with dry contact alarms
- PS700 and PS800 High capacity versions (64 channels)
- Country of Origin: USA
- 3-year warranty
- IFC & NFPA compliance; UL2524 2nd Edition Listing



Applications

- For P25 Phase I & Phase II, DMR, NXDN and Conventional systems.
- Indoor coverage: buildings, schools, hospitals, casinos, tunnels, metro stations.
- Outdoor coverage: oil rigs, stadiums, dense urban areas, rural areas.

Specification	Value
Type	Single and Dual Band Digital Signal Boosters
Frequency range	758-775 / 788-805 MHz or 764-776 / 794-806 MHz (software adjustable) & 806-824 / 851-869MHz
Passband BW. min	Channel Selective (150KHz, 100KHz, 75KHz, 62.5KHz, 50KHz, 37.5KHz, 25KHz and 12.5KHz) or 100KHz to full band (depends of configuration)
Number of Passband	PS700 + FirstNet Class B: 1 FirstNet + 1 BWA PS700 + FirstNet Class A: 32 channel filters + 1 FirstNet + 1 BWA PS700 + FirstNet High Capacity: 64 filters + 1 FirstNet PS800 Class B: 2 BWA PS800 Class A: 32 channel filters + 2 BWA PS800 + High Capacity: 64 filters PS700 + FirstNet + PS800: Class B: 2 BWA per band PS700 + FirstNet + PS800: Class A: 32 channel filters + 2 BWA per band
Channel Filter Options	150KHz, 100KHz, 75KHz, 62.5KHz, 50KHz, 37.5KHz, 25KHz and 12.5KHz
BWA Filters	Adjustable from 100KHz to fullband in step in steps of 50KHz
Gain, maximum	85 dB
Passband ripple	+/- 2.0 dB
Gain, manual control	30dB range, digitally controlled in 1dB steps, per link, per band

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Antenna isolation	Max Gain + 20dB
Composite output power, DL	+33dBm or +27dBm (depending on configuration) per band
Composite output power, UL	+27dBm
IMD	< -13dBm
Noise figure	9.0dB max
Group delay	Channel Selective 150KHz, 11.5µS Channel Selective 100KHz, 13.5µS Channel Selective 75KHz, 16.0µS Channel Selective 62.5KHz, 18.0µS Channel Selective 50KHz, 21.0µS Channel Selective 37.5KHz, 25.5µS Channel Selective 25KHz, 35.0µS Channel Selective 12.5KHz, 61.5µS or Band Selective: 3.5 to 6.5µS, depending on BWA
Maximum input power, no damage	+5dBm (UL) +5dBm (DL)
Maximum input power, normal operation	0dBm (UL) 0dBm (DL)
Connectors	N(f) as standard
RF Input/Output impedance	50Ω
Uplink squelch function	Yes, user selectable, to avoid UL noise when no carriers present, per band, per time slot and per channel (on channel selective mode)
Self diagnostic platform	Microprocessor based
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, temperature, AGC, RF overload, donor antenna failure, VSWR Indoor.
Local management and supervising	Local access via USB
RoHS compliance	Yes
Power Supply	AC 110 VAC, 50/60 Hz or DC +24VDC & -48VDC (depending on configuration)
Power consumption	80W in dual band, 62W in single band
Housing	IP67 / NEMA4X
Temperature range	-13° to 131° F • -25° to +55° C
Cooling	Natural convection
Weight	52.9 lbs • 24 kg
Dimension	17.7 x 17.3 x 5.1 in • 450 x 440 x 130 mm
Mounting	Wall or pole mounting (Rack mounting option available)
MTBF	250000 hours

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Configurations	CLASS A			
	+33 dBm AC	+33 dBm DC	+27 dBm AC	+27 dBm DC
700 + FirstNet	HONBDA-A-733A	HONBDA-D-733A	HONBDA-A-727A	HONBDA-D-727A
800 MHz	HONBDA-A-S33A	HONBDA-D-S33A	HONBDA-A-S27A	HONBDA-D-S27A
800 + 700 + FirstNet	HONBDA-A-7S33A	HONBDA-D-7S33A	HONBDA-A-7S27A	HONBDA-D-7S27A
700MHz High Capacity	HONBDA-A-733AH	HONBDA-D-733AH	HONBDA-A-727AH	HONBDA-D-727AH
800MHz High Capacity	HONBDA-A-S33AH	HONBDA-D-S33AH	HONBDA-A-S27AH	HONBDA-D-S27AH

Configurations	CLASS B			
	+33 dBm AC	+33 dBm DC	+27 dBm AC	+27 dBm DC
700 + FirstNet	HONBDA-A-733B	HONBDA-D-733B	-	-
800 MHz	HONBDA-A-S33B	HONBDA-D-S33B	-	-
800 + 700 + FirstNet	HONBDA-A-7S33B	HONBDA-D-7S33B	HONBDA-A-7S27B	HONBDA-D-7S27B

Upgrade License PN	DESCRIPTION
BDA-LIC-S33B-S33A	Digital 700/800 BDA Upgrade License - Single Band 2W Class B to Single Band 2W Class A
BDA-LIC-D33B-D33A	Digital 700/800 BDA Upgrade License - Dual Band 2W Class B to Dual Band 2W Class A
BDA-LIC-S33B-D33B	Digital 700/800 BDA Upgrade License - Single Band 2W Class B to Dual Band 2W Class B
BDA-LIC-S33A-D33A	Digital 700/800 BDA Upgrade License - Single Band 2W Class A to Dual Band 2W Class A
BDA-LIC-S33B-D33A	Digital 700/800 BDA Upgrade License - Single Band 2W Class B to Dual Band 2W Class A
BDA-LIC-S27A-S33A	Digital 700/800 BDA Upgrade License - Single Band 0.5W Class A to Single Band 2W Class A
BDA-LIC-D27A-D33A	Digital 700/800 BDA Upgrade License - Dual Band 0.5W Class A to Dual Band 2W Class A
BDA-LIC-S27A-D27A	Digital 700/800 BDA Upgrade License - Single Band 0.5W Class A to Dual Band 0.5W Class A
BDA-LIC-S27A-D33A	Digital 700/800 BDA Upgrade License - Single Band 0.5W Class A to Dual Band 2W Class A
BDA-LIC-D27B-D33B	Digital 700/800 BDA Upgrade License - Dual Band 0.5W Class B to Dual Band 2W Class B
BDA-LIC-D27B-D27A	Digital 700/800 BDA Upgrade License - Dual Band 0.5W Class B to Dual Band 0.5W Class A
BDA-LIC-D27B-D33A	Digital 700/800 BDA Upgrade License - Dual Band 0.5W Class B to Dual Band 2W Class A

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 continuing violation.

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