FLEX Series BDA PS700 - PS800 High Power Digital Signal Boosters

HONBDA-A/D

Product Features

- Supports Public Safety 700 & 800 MHz dual band version
- FirstNet™ Band 14 available
- Fully digital signal boosters, FPGA-based on Standards and Codes
- 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, and per time slot
- Oscillation detection with alarm and auto-shutdown
- Antenna Isolation measurement feature
- Antenna Isolation Alarm
- Weatherproof enclosure, NEMA4
- NFPA compliant with dry contact alarms
- Channel Selective, software programmable or adjustable bandwidths
- US and Canada 700 MHz band compatible, software adjustable auto-diagnostic
- Built-in spectrum analyzer
- 3 Year Warranty
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (Federal Communications Commission-US)
- Industrial Canada (IC) Compliant
- IFC 2015, 2018, 2021 Edition Standards
- ISO 9001 Compliant
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition and NFPA 1225 2022 Edition
- RoHS Compliant
- UL2524 3rd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524



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	Dual Band Digital Signal Boosters
Power Supply	AC 110 VAC, 50/60 Hz or DC +24 VDC (Depending on the Configuration)
Power Consumption	170 W
Frequency Range	758-775/788-805 MHz or 764-776/794-806 MHz (Software Adjustable) & 806-824/851-869 MHz
Passband Bandwidth (Minimum)	Channel Selective (150 KHz, 100 Khz, 75 KHz, 62.5 KHz, 50 KHz, 37.5 KHz, 25 KHz and 12.5 KHz) or 100 KHz to full band (Depends of Configuration)
BWA Filters	Adjustable from 100 KHz to full band in step in steps of 50 KHz
Number of BWA Filters	2 per band
Number of Channels	32 per band
Number of Passband	• PS700 + FirstNet + PS800: Class B: 2 BWA per band • PS700 + FirstNet + PS800: Class A: 32 channel filters +2 BWA per band
Channel Filter Options	150 KHz, 100 KHz, 75 KHz, 62.5 KHz, 50 KHz, 37.5 KHz, 25 KHz and 12.5 KHz
Gain (Maximum)	85 dB
Passband Ripple	+/-2.0 dB
Gain (Manual Control)	30 dB range, digitally controlled in 1 dB steps, per link, per band

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Specification	Value
Antenna Isolation	Max Gain +20 dB
Composite Output Power (DL)	+37dBm per band
Composite Output Power (UL)	+24 dBm
IM and Spurious Generation	<-13 dBm
Noise Figure	9.0 dB at Maximum Gain
Group Delay	• Channel Selective 150 KHz, 11.5 µS • Channel Selective 100 KHz, 13.5 µS • Channel Selective 75 KHz, 16.0 µS • Channel Selective 62.5 KHz, 18.0 µS • Channel Selective 50 KHz, 21.0 µS • Channel Selective 37.5 KHz, 25.5 µS • Channel Selective 25 KHz, 35.0 µS • Channel Selective 12.5 KHz, 61.5 µS • Or Band Selective: 3.5 to 6.5 µS depending on BWA after Class A upgrade
Maximum Input Power (No Damage)	+5 dBm (UL), +5 dBm (DL)
Maximum Input Power (Normal Operation)	0 dBm (UL), -35 dBm (DL)
RF Connectors	N (f) as standard
RF Input/Output Impedance	50 Ohms (Ω)
Uplink Squelch Function	Yes, user selectable, to avoid UL noise when no carriers present, per band, per time slot and per channel (on the channel selective mode)
Self Diagnostic Platform	Microprocessor Based
Alarms	• Amplifiers Status • Power Amplifiers Status • Power Supply Failure • Temperature • AGC • RF Overload • Donor Antenna Failure • VSWR Indoor
Housing/Enclosure Rating	NEMA4
Operating Temperature Range	-13º to 131º F (-25º to +55º C)
Cooling	Natural Convection
Weight	160 lbs (72 kg)
Dimension	30 x 24 x 18 in (762 x 609.6 x 468.95 mm)
Mounting	Wall Mounting (Rack Mounting Option Available)
MTBF	50,000 hours
Local Management and Supervising	Local access via USB Connection
Remote Management and Supervising	Remote access via Ethernet Connection

* Value valid for non duplexed units. This value can change depending on the filtering insertion loss of the duplexer.

Normative/License/Certification	Value
FCC ID	Class A: P3TDH7S-6A (High Capacity) Class B: P3TDH7S-6B
UL ID	SGSNA/21/SUW/00081X

WARNING: This is NOT a CONSUMER device. It is designed for installation by the 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.

Ordering Information

HONBDA-A-7S37A: PS 700 + 800MHz Dual Band incl Band 14, Class A,5W / +37dBm per band, AC. NFPA compliant, UL2524 2nd Edition HONEYWELL Digital BDA

HONBDA-D-7S37A: PS 700 + 800MHz Dual Band incl Band 14, Class A,5W / +37dBm per band, DC. NFPA compliant, UL2524 2nd Edition HONEYWELL Digital BDA

HONBDA-A-7S37B: PS 700 + 800MHz Dual Band incl Band 14, Class B,5W / +37dBm per band, AC. NFPA compliant, UL2524 2nd Edition HONEYWELL Digital BDA

HONBDA-D-7S37B: PS 700 + 800MHz Dual Band incl Band 14, Class B,5W / +37dBm per band, DC. NFPA compliant, UL2524 2nd Edition HONEYWELL Digital BDA

Standards and Codes

The HONBDA-A/D-7S27B units comply with the following Standards and Codes.

- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (Federal Communications Commission-US)
- Industrial Canada (IC) Compliant
- IFC 2015, 2018, 2021 Edition Standard
- ISO 9001 Compliant
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition and NFPA 1225 2022 Edition Standard
- RoHS Compliant
- UL2524 3rd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524.

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We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

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