FLEX SERIES BDA **HONBDA-A/D**

Product Features

- Supports Public Safety 700 & 800 MHz
- 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, NEMA4
- NFPA compliant with dry contact alarms
- Country of Origin: USA
- 3-year Warranty
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FC (Federal Communications Commission-US)
- IC Approved
- IFC 2015, 2018, 2021 Edition Standards
- ISO 9001 Compliant
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition
- RoHS Compliant
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524.SGS-C US

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
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 + 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	30 dB range, digitally controlled in 1dB steps, per link, per band
Antenna isolation	Max Gain + 20dB
Composite output power, DL	+37dBm per band
Composite output power, UL	+24dBm
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	0dBm (UL) 0dBm (DL)
Maximum input power, normal operation	0dBm (UL) -35dBm (DL)

Specification	Value
Connectors	N(f) as standard
RF Input/Output impedance	50
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	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 and Ethernet (web browser)
Remote management and supervising	Remote access via Ethernet
RoHS compliance	AC 110 VAC, 50/60 Hz or DC +24VDC (depending on the configuration)
Power consumption	170W
Housing	NEMA4
Temperature Range	-13º to 131º F • -25º to +55º C
Cooling	Natural convection
Weight	88 lbs • 40 kg
Dimension	30 x 24 x 16 in (762 x 609.6 x 406.4mm)
Mounting	Wall mounting (Rack mounting option available)
MTBF	250,000 hours
FCC ID Class A & High Capacity	P3TDH7S-6A
FCC ID Class B	P3TDH7S-6B

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

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

ISO 9001
CERTIFIED
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

This document is not intended to be used for installation purposes.

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.

Country of Origin: USA

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