

FLEX SERIES BDA HONBDA-A/D-7S27B

Public Safety 700 & 800 FLEX Digital Signal Booster

The Public Safety 700 & PS 800, FLEX Digital Signal Boosters support the 0.5W/27dBm - 2W/33dBm, Class B - Class A. The boosters provide Public Safety 700 & 800 MHz in a dual band version. It offers a 3-year Warranty.

The FLEX Series BDA, HONBDA-A-7S27B and HONBDA-D-7S27B devices are PS700 and PS800, fully Digital Signal Boosters that are FPBGA-based. The Digital Signal Boosters are Channel Selective, and provide software programmable or adjustable bandwidths. In addition, they include a built-in input and output Spectrum Analyzer.

These devices comply with UL2524 2nd Edition Standard Listing.

- 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

ORDERING INFORMATION

HONBDA-A-7S27B: PS 700 + 800MHz Dual Band incl Band 14, Class B, 0.5W / +27dBm per band, AC. NFPA compliant, UL2524 2nd Edition Listed HONEYWELL Digital BDA

HONBDA-D-7S27B: PS 700 + 800MHz Dual Band incl Band 14, Class B, 0.5W / +27dBm per band, DC. NFPA compliant, UL2524 2nd Edition Listed HONEYWELL Digital BDA

CONFIGURATION UPGRADED LICENSE PART NUMBERS

HONBDA-LIC-D33B-D33A: CONFIGURATION UPGRADE Digital 700/800 BDA FAMILY. From PS700&PS800, +33dBm, Class B to PS700&PS800, +33dBm, Class A

HONBDA-LIC-D27A-D33A: CONFIGURATION UPGRADE Digital 700/800 BDA FAMILY. From PS700&PS800, +27dBm, Class A to PS700&PS800, +33dBm, Class A

HONBDA-LIC-D27B-D33B: CONFIGURATION UPGRADE Digital 700/800 BDA FAMILY. From PS700&PS800, +27dBm, Class B to PS700&PS800, +33dBm, Class B

HONBDA-LIC-D27B-D27A: CONFIGURATION UPGRADE Digital 700/800 BDA FAMILY. From PS700&PS800, +27dBm, Class B to PS700&PS800, +27dBm, Class A

HONBDA-LIC-D27B-D33A: CONFIGURATION UPGRADE Digital 700/800 BDA FAMILY. From PS700&PS800, +27dBm, Class B to PS700&PS800, +33dBm, Class A



FEATURES AND BENEFITS

- Supports Public Safety 700 & 800MHz dual band version
- FirstNet™ Band 14 available
- Upgradeable options: Class B to Class A & 0.5W/27dBm to 2W/33dBm
- Fully digital, FPGA-based
- Auto Diagnostic
- Automatic gain control per band; Per channel and per time slot on channel selective mode
- Oscillation detection with alarm and auto-shutdown
- Antenna Isolation measurement feature
- Antenna Isolation Alarm
- Weatherproof enclosure, NEMA4
- NFPA compliant with dry contact alarms
- High capacity versions (64 channels)
- Uplink and downlink squelch, per channel and per time slot on channel selective mode
- Assisted GUI wizard with Automatic Calibration features (Patent Pending) to reduce the uplink noise
- User adjustable gain control, UL and DL independent, per band, per channel and per time slot on channel selective mode
- 3-years Warranty
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (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

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FLEX SERIES BDA HONBDA-A/D-7S27B TECHNICAL SPECIFICATIONS

SPECIFICATIONS

Type: Dual Band Digital Signal Booster

Frequency Range: 758-775/788-805 MHz or 764-776/794-806 MHz (software adjustable) & 806-824 / 851-869MHz

Passband BW. min: 100KHz to full band or Channel Selective (After Upgrade to Class A)

Number of Passband: 2 BWA per band or 32 channel filters + 2 BWA per band (After Upgrade to Class A)

Channel Filter Options: 150KHz, 100KHz, 75KHz, 62.5KHz, 50KHz, 37.5KHz, 25KHz and 12.5KHz (After Upgrade to Class A)

BWA Filters: Adjustable from 100KHz to full band 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

Antenna Isolation: Max Gain + 20dB

Composite Output Power, DL: +27dBm or +33dBm (After Upgrade to 2W) per band

Composite Output Power, UL: +27dBm

IMD: < -13dBm

Noise Figure: 9.0dB max

Group Delay:

Band Selective: 3.5 to 6.5µS, depending on the BWA

- Or After Class A upgrade
- 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

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 Class A 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, oscillation.

Local Management and Supervising: Local access via USB

RoHS Compliance: Yes

Power Supply: AC 110 VAC, 50/60 Hz or DC +24VDC (depending on configuration)

Power Consumption: 65W or 80W (After Upgrade to 2W)

Housing: NEMA 4

Temperature Range: -13° to 131° F (-25° to +55° C)

Cooling: Natural convection

Weight: 52.9 lbs or 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: 250,000 hours

FCC ID for HONBDA-A & HONBDA-D

"Class B": P3TDH7S-00X

FCC ID for HONBDA-A & HONBDA-D

"Class A": P3TDH7S-00XA

* 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.

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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.

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