FLEX Series BDA
PS700-PS800 Digital Signal Boosters

HONBDA-A-7S27B & HONBDA-D-7S27B

Product Features

- 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
- 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

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 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	+24dBm
IMD	< -13dBm
Noise Figure	9.0dB max
Group Delay	Band Selective: 3.5 to 6.5µS, depending on 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

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FLEX Series BDA

PS700-PS800-Digital Signal Boosters

HONBDA-A-7S27B & HONBDA-D-7S27B

Specification	Value
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	-13º to 131º F • -25º to +55º 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	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.

Ordering Information

HONBDA-A-7S27B: 0.5W/27dBm, 800 + 700 + FirstNet CLASS B, Upgradeable to Class A, 2W/33dBm options, AC
HONBDA-D-7S27B: 0.5W/27dBm, 800 + 700 + FirstNet CLASS B, Upgradeable to Class A, 2W/33dBm options, DC

Upgraded License Part Numbers

BDA-LIC-D27B-D27A: From 0.5W/27dBm Class B to 0.5W/27dBm Class A (HONBDA-A-7S27A & HONBD-D-7S27A)
BDA-LIC-D27B-D33B: From 0.5W/27dBm Class B to 2W/33dBm Class B (HONBDA-A-7S33B & HONBDA-D-7S33B)
BDA-LIC-D27B-D33A: From 0.5W/27dBm Class B to 2W/33dBm Class A (HONBDA-A-7S33A & HONBDA-D-7S33A)
BDA-LIC-D27A-D33A: From 0.5W/27dBm Class A to 2W/33dBm Class A (HONBDA-A-7S33A & HONBDA-D-7S33A)
BDA-LIC-D33B-D33A: From 2W/33dBm Class B to 2W/33dBm Class A (HONBDA-A-7S33A & HONBDA-D-7S33A)

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
- IC Approved
- IFC 2015, 2018, 2021 Edition Standard
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition Standard
- ROHS Compliant
- SGS C-UL Compliant
- UL2524 2nd Edition Standard with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524

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