FLEX All-in-One Solution
Integrated BDA + Battery Backup + Annunciator

HONBDA-7S

Product Features

- Supports Public Safety 700 & 800MHz dual band version
- 24hr Battery backup and Annunciator included in the same cabinet
- 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
- Innovative donor antenna disconnect and malfunction alarms
- EPO switch support
- Weatherproof enclosure, NEMA 4
- 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 and per channel on channel selective mode
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524
- IFC 2015, 2018, 2021 Edition
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition, NFPA 1225 2022 Edition
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- 3 years Warranty



Applications

- Provides simultaneous support of Analog and Digital communications 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

Specifications	Value
Type	Dual Band Digital Signal Booster
Frequency Range	HONBDA-7S27B-IB-10: DL: 758-775 & 851-861MHz | UL: 788-805 & 806-816MHz HONBDA-7S27B-IB-06: DL: 769-775 & 851-861MHz | UL: 799-805 & 806-816MHz HONBDA-7S27B-IB-18: DL: 758-776 & 851-869MHz | UL: 788-806 & 806-824MHz
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 per band
IMD	< -13dBm
Noise Figure	9.0dB max

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Specifications	Value
Group Delay	Band Selective: 3.1 to 6.0µS, depending on BWA Or After Class A upgrade Channel Selective 150kHz, 11.6µS Channel Selective 100kHz, 14.3µS Channel Selective 75kHz, 16.9µS Channel Selective 62.5kHz, 18.8µS Channel Selective 50kHz, 21.6µS Channel Selective 37.5kHz, 26.3µS Channel Selective 25kHz, 35.8µS Channel Selective 12.5kHz, 63.0µS
Maximum Input Power, No Damage	0dBm (UL), 0dBm (DL)
Maximum Input Power, Normal peration	-5dBm (UL), -5dBm (DL)
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 Class A mode)
Self diagnostic platform	Microprocessor based
Annunciator	LED and dry contacts included
Local management and supervising	Local access via USB
RoHS compliance	Yes
Power Supply	AC 110 VAC, 50/60 Hz
Battery Backup time	24hr at maximum consumption with Fiplex provided batteries
Quantity of Batteries	2 units
Batteries Type	Lead Acid
Power consumption for 24hr backup calculation	65W or 80W (After Upgrade to 2W)
Maximum AC Power consumption considering fully discharged batteries	200W
Housing	NEMA 4
Temperature range	-13º to 131º F • -25º to +55º C
Cooling	Natural convection
Weight	275 lbs (124.7kg) - including batteries
Dimension	25.5 in (647.50 mm) x 32.5 in (827 mm) x 13.8 in (353 mm)
FCC ID	Class A: P3TDH7S-8A Class B: P3TDH7S-8B
SGS UL2524 ID	SGSNA/23/SUW/00030

Product Description	Ordering Part Number
0.5W/27dBm, 800 (excludes ESMR) + 700 + Band 14 CLASS B, Upgradeable to Class A, 2W/33dBm options, AC. Batteries Included	HONBDA-7S27B-IB-10
0.5W/27dBm, 800 (excludes ESMR) + 700 (excludes Band 14), CLASS B, Upgradeable to Class A,2W/33dBm options, AC. Batteries Included	HONBDA-7S27B-IB-06
0.5W/27dBm, 800 Full band (includes ESMR)+ 700 + Band 14, CLASS B, Upgradeable to Class A, 2W/33dBm options, AC. Batteries Included	HONBDA-7S27B-IB-18

Type of License Upgrade	Upgrade Ordering Part Number
From 0.5W/27dBm Class B to 0.5W/27dBm Class A	BDA-LIC-D27B-D27A
From 0.5W/27dBm Class B to 2W/33dBm Class B	BDA-LIC-D27B-D33B
From 0.5W/27dBm Class B to 2W/33dBm Class A	BDA-LIC-D27B-D33A
From 2W/33dBm Class B to 2W/33dBm Class A	BDA-LIC-D33B-D33A
From 0.5W/27dBm Class A to 2W/33dBm Class A	BDA-LIC-D27A-D33A

Standards and Codes

The FLEX All-in-One Solution Integrated BDA + Battery Backup + Annunciator 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
- SGS C-UL Compliant
- UL2524 2nd Edition Standard with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL 2524
- IFC 2015, 2018, 2021 Edition
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition, NFPA 1225 2022 Edition
- ROHS Compliant

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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