UHF Low Band Digital Signal Boosters
406-439 MHz

HONBDA-A-L2
HONBDA-D-L2

Product Features

- Channel Selective, software programmable, 32 channels per band
- Fully digital signal boosters, FPGA based on standards and codes
- Downlink and Uplink Squelch, per channel and per time slot on channel selective mode
- User adjustable gain control, UL and DL independent, per channel
- Automatic Gain Control, per channel and per time slot on channel selective mode
- Weatherproof enclosure, NEMA 4
- Auto Diagnostic
- Built in spectrum analyzer
- Preserves far-end communications
- Preserves BTS UL sensitivity
- 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.



Applications

- Compatible with P25 Phase 1 and 2, TETRA, TETRAPOL, NXDN, DMR, Conventional, MPT1327, among others.
- Indoor Coverage: Tunnels and mobile fast-deploy communication units.
- Outdoor Coverage: oil rigs, stadiums, dense urban areas, rural areas, cliff.

Specification	Value
Type	Digital Signal Boosters
Power Supply	AC or DC (AC: 110 VAC / DC: 24VDC)
Power Consumption	140 W
Frequency Range	406.1 - 439 MHz
Internal Duplexer	Available
Number of Channels	32 channels + 2 BW adjustable per band
Available Channel Filter BW	100 KHz, 75 KHz, 62.5 KHz, 50 KHz, 37.5 KHz, 25 KHz and 12.5 KHz
Gain, Maximum	85 dB +/- 2.0 dB
Passband Ripple	+/- 3 dB
Gain, Manual Control	28dB range, digitally controlled in 1 dB steps
Antenna Isolation	Max Gain + 20dB
Composite Output Power, DL *	+37 dBm composite
Composite Output Power, UL *	+24 dBm composite
IM and Spurious Generation	< -13 dBm
Simplex Option	Configurable per channel
Group Delay	Channel Selective 100 KHz, 12.6 µS Channel Selective 75 KHz, 14.9 µS Channel Selective 62.5 KHz, 16.8 µS Channel Selective 50 KHz, 19.6 µS Channel Selective 37.5 KHz, 24.1 µS Channel Selective 25 KHz, 33.4 µS Channel Selective 12.5 KHz, 62.1 µS or Band selective: 3.5 to 6.5 µS, depending on BWA

fiplex by Honeywell

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Specification	Value
Noise Figure	9.0 dB max at maximum gain
Maximum Input Power, No Damage	-35 dBm (DL)
RF Input/Output impedance	50 ohms (Ω)
Connectors	N (f) as standard
Uplink Squelch Function	Yes, user selectable, to avoid UL noise when no carriers present, by time slot and by channel (Channel Selective model only)
Self Diagnostic Platform	Microprocessor based
Alarms	Amplifers Status, Power Ampliers Status, Power Supply Failure, Battery Backup Failure, Temperature, AGC, RF Overload, Poor antenna isolation
RoHS Compliance	Yes
Housing	NEMA 4
Temperature Range	-13º to 131º F (-25º to +55º C)
Cooling	Natural convection
Mounting	Wall mounting
MTBF	50.000 hours
Local Management	Local access via USB

*Valid for non duplexed unit. This value can change depending on the filtering insertion loss of the duplexer.

Ordering Information

HONBDA-A-L2NH: DIGITAL SIGNAL BOOSTER.UHF 406-439 MHz, +37dBm, 32 filters +2 Adj sub bands, NFPA, class A/B, AC, No internal Duplexer, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL BDA

HONBDA-A-L25H: DIGITAL SIGNAL BOOSTER.UHF 406-439 MHz, +37dBm, 32 filters +2 Adj sub bands, NFPA, class A/B, AC, 5MHz BW internal Duplexer, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL BDA

HONBDA-A-L22H: DIGITAL SIGNAL BOOSTER.UHF 406-439 MHz, +37dBm, 32 filters +2 Adj sub bands, NFPA, class A/B, AC, 2MHz BW internal Duplexer, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL BDA

HONBDA-D-L2NH: DIGITAL SIGNAL BOOSTER.UHF 406-439 MHz, +37dBm, 32 filters +2 Adj sub bands, NFPA, class A/B, DC, No internal Duplexer, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL BDA

HONBDA-D-L25H: DIGITAL SIGNAL BOOSTER.UHF 406-439 MHz, +37dBm, 32 filters +2 Adj sub bands, NFPA, class A/B, DC, 5MHz BW internal Duplexer, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL BDA

HONBDA-D-L22H: DIGITAL SIGNAL BOOSTER.UHF 406-436 MHz, +37dBm, 32 filters +2 Adj sub bands, NFPA, class A/B, DC, 2MHz BW internal Duplexer, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL BDA

Standards and Codes

The HONBDA 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 cannot cover all specific applications or anticipate all requirements.
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