UHF Low Band Digital Signal Boosters
380-400 MHz

HONBDA-A-L1
HONBDA-D-L1

Product Features

- Channel Selective, software programmable, 32 channels per band
- Fully digital signal boosters, FPGA based
- Auto diagnostic
- Downlink & Uplink squelch, per channel and per time slot
- User adjustable gain control, UL and DL independent, per channel
- Automatic Gain Control, per channel and per time slot
- Weatherproof enclosure NEMA 4
- Built in spectrum analyzer
- Preserves far-end communications
- Preserves BTS UL sensitivity
- Compatible with P25 Phase 1 and 2, TETRA, TETRAPOL, NXDN, DMR, Conventional, MPT1327, among others



Applications

- Indoor coverage: tunnels and mobile fast-deploy communication units
- Outdoor coverage: oil rigs, stadiums, dense urban areas, rural areas, cliffs

Specification	Value
Type	Digital Signal Boosters
Frequency Range	380-400 MHz
Internal Duplexer	Available
Number of Channels	32 channels + 2 BW adjustable per band
Available Channel Filter BW	100kHz, 75kHz, 62.5kHz, 50kHz, 37.5kHz, 25kHz & 12.5kHz
Group Delay	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, 63µS or Band selective: 3.5 to 6.5µS, depending on BWA
Gain, Maximum	85 dB +/- 2.0 dB
Passband Ripple	+/- 3 dB
Gain, Manual Control	28dB range, digitally controlled in 1dB 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
Noise Figure	9.0 dB max at maximum gain
Impedance	50ΩA1
Maximum Input Power, No Damage	0 dBm (UL) -35 dBm (DL)
Connectors	N(f) as standard

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

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Specification	Value
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	Amplifier Failure, Oscillation Detection, Donor Antenna Disconnect, Donor Antenna Malfunction, VSWR Alarm
Local Management	Local access via USB
RoHS Compliance	Yes
Power Supply	AC or DC (AC: 110 VAC / DC: 24VDC)
Power Consumption	140 W
Housing	NEMA 4
Temperature Range	-13º to 131º F • -25º to +55º C
Cooling	Natural convection
Mounting	Wall mounting
Dimension Remote Unit - High Power	34.17in x 24.94in x 18in (868.15mm x 633.6mm x 459.45mm)
Weight Remote - High Power	185lbs (72kgs)
MTBF	<50.000 hours

MODEL	BAND	BW DUPLEXER	PORT CONFIG	POWER SUPPLY
HONBDA-A-L1NH	UHF 380-400MHz	NON DUPLEXED	NON DUPLEXED	AC
HONBDA-A-L15H	UHF 380-400MHz	5MHz BW	BOTH SIDES DUPLEXED	AC
HONBDA-D-L1NH	UHF 380-400MHz	NON DUPLEXED	NON DUPLEXED	DC
HONBDA-D-L15H	UHF 380-400MHz	5MHz BW	BOTH SIDES DUPLEXED	DC

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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