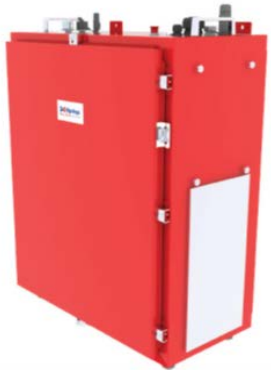
UHF Low Band Centric DAS
380-400 MHz

HONBDA-xx-L1

Product Features

- Specifically designed for LMR and Public Safety Applications
- Redundancy features
- No need of “Front End BDA” or “POI”, reduced infrastructure cost
- Channelized
- Programmable uplink squelch (per channel and time slot) for reduced UL noise contribution
- Software programmable channel selective or band selective operation, suitable for highly congested RF environments
- Centralized operation, single point of access
- AGC per channel and time slot
- Supports Over The Air (OTA) operation
- Preserves the far end communications and protects BTS Rx sensitivity



Applications

- For P25 Ph1, P25 Ph2, DMR, TETRA, TETRAPOL, C2000, NXDN and Conventional Systems
- Indoor: tunnels, buildings, subways, airports, among others
- Outdoor: stadiums, canyons, dense urban areas, remote rural towns

Specifications	Value
Fiber Optic	Single mode
WDM	Yes
Optical Wavelengths	1310 / 1550 nM
Operational Bands	380-400 MHz
Number of Channel Filters	64 channels + 4 Bandwidth Adjustable per band
Available Channel Filter BW	100kHz, 75kHz, 62.5kHz, 50kHz, 37.5kHz, 25kHz & 12.5kHz
Group Delay	Channel Selective 100 kHz, 14.3µS Channel Selective 75 kHz, 16.9µS Channel Selective 62.5 kHz, 18.8µS Channel Selective 50 kHz, 21.6µS Channel Selective 37.5 kHz, 26.3µS Channel Selective 25 kHz, 35.8µS Channel Selective 12.5 kHz, 63µS or Band selective: 3.5 to 6.5µS, depending on BWA
Supported Fiber Loss	20dBo max
Optical Connectors	LC/UPC
Optical Return Loss	>45dB
RF Input/Output Impedance	50Ω
RF Connectors	N(f)
Overall Gain (Master + Remote)	85 dB regardless fiber length
Noise Figure	<9 dB

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Master Unit Electrical and Mechanical Specifications	Value
DL Manual Attenuator	20dB in 1dB steps
Maximum UL Output Power	+24 dBm
UL IM and Spurious Generation	< -13 dBm
UL Manual Attenuator	20dB in 1dB steps
Max Operational DL Input Power	-35dBm
Number of Optical Ports	8
Power Supply	110 VAC OR +24VDC
Power Consumption	80 W
Housing	NEMA 4
Temperature Range	-22º to +131º F • -30º to +55º C
Humidity	<95% non condensing
Dimensions	30in x 24in x 14in (762mm x 610mm x 335mm)
Weight	210lbs (95kgs)
MTBF	>50,000 hours

Remote Unit Electrical and Mechanical Specifications	Value
Composite Output Power, DL	+ 37 dBm
DL IMD and Spurious Generation	< -13dBc
Number of Optical Ports	1 for MU redundancy FO ports available as optional
UL Maximum Input Power	0dBm
UL Noise Reduction	UL squelch per channel, programmable
Manual Attenuator	20dB in 1 dB steps +/- 0.5 dB
Power Supply	110VAC OR +24VDC
Power Consumption	140 W
Housing	NEMA 4
Temperature Range	-22º to +131º F • -30º to +55º C
Humidity	< 95% non condensing
Dimension	30in x 24in x 14in (762mm x 610mm x 335mm)
Weight	185lbs (72kgs)
Dimension - High Power	34.17in x 24.94in x 18in (868.15mm x 633.6mm x 459.45mm)
Weight - High Power	187.3lbs (84kgs)
MTBF	> 50.000 hours

Control and Alarms	Value
Alarms report	Via Master Unit
	Local: USB (POWER STATUS, MU STATUS, RM STATUS)
Master Unit Configuration	Local: USB

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MODEL	BAND	BW DUPLEXER	TYPE	POWER SUPPLY
HONBDA-MA-L1NH	UHF 380-400MHz	NON DUPLEXED	MASTER	AC
HONBDA-MA-L15H	UHF 380-400MHz	5MHz BW	MASTER	AC
HONBDA-R1A-L1NH	UHF 380-400MHz	NON DUPLEXED	REMOTE 1FO	AC
HONBDA-R1A-L15H	UHF 380-400MHz	5MHz BW	REMOTE 1FO	AC
HONBDA-R1D-L1NH	UHF 380-400MHz	NON DUPLEXED	REMOTE 1FO	DC
HONBDA-R1D-L15H	UHF 380-400MHz	5MHz BW	REMOTE 1FO	DC
HONBDA-R2A-L1NH	UHF 380-400MHz	NON DUPLEXED	REMOTE 1FO	AC
HONBDA-R2A-L15H	UHF 380-400MHz	5MHz BW	REMOTE 1FO	AC
HONBDA-R2D-L1NH	UHF 380-400MHz	NON DUPLEXED	REMOTE 1FO	DC
HONBDA-R2D-L15H	UHF 380-400MHz	5MHz BW	REMOTE 1FO	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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