VHF & UHF DIGITAL SIGNAL BOOSTERS 136 - 174 MHz & 450 - 512 MHz

Product Features

- Single VHF or UHF and dual band options
- Simultaneous dual band 136 174 MHz & 450 512 MHz with multiple sub band options in UHF
- Channel Selective, software programmable, 32 channels per band and BW adjustable filters 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, IP67/NEMA4X
- NFPA compliant
- 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
- Country of Origin: USA
- 3-year warranty
- IFC & NFPA compliance; UL2524 2nd Edition Listing

Applications

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

Specification	Value			
Туре	Digital Signal Boosters			
Frequency range	VHF: 136-174 MHz / UHF: 450 - 512 MHz			
Internal duplexer	Multiple bandwidth options available, see table			
Number of Channels	32 per band			
Channel Bandwidth	150 KHz, 100 KHz, 75 KHz, , 62.5 KHz, 50 KHz, 37.5 KHz, 25 KHz & 12.5 KHz			
Number of BWA filters	2 per band			
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*	VHF: +24 dBm, UHF: +30 dBm			
Composite output power, UL *	VHF & UHF: +24 dBm per band			
IM and spurious generation	<-13 dBm			
Simplex option	Configurable per channel			
Noise figure	9.0 dB max at maximum gain			
Impedance	50 Ω			
Group delay	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			



HONBDA-CA

HONBDA-EA

Honeywell

DOC HON-62052.02 • 07242020 • DMC

VHF & UHF DIGITAL SIGNAL BOOSTERS 136 - 512 MHz

HONBDA-CA HONBDA-EA

	Channel Selective 12.5KHz, 61.5µS		
	or Band selective: 3.5 to 6.5µS, depending on BWA		
Maximum input power, no damage	0 dBm (UL)		
	-35dBm (DL)		
RF Connectors	N(f) as standard		
RF Input/Output impedance	50Ω		
Uplink squelch function	Yes, user selectable, to avoid UL noise when no carriers present, by time slot and by channel		
Self diagnostic platform	Microprocessor based		
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, battery backup failure, temperature, AGC, RF overload, poor antenna isolation.		
Local management and supervising	Local access via USB		
RoHS compliance	Yes		
Power Supply	110VAC 60Hz & +24/-48VDC		
Power Consumption	100 W		
Housing	IP67 / NEMA4X		
Temperature range	-13° to 131° F • -25° to +55° C		
Cooling	Natural convection		
Dimensions	Cabinet Type "C": 27,2 x 20 x 9 in		
	Cabinet Type "E": 30x 24 x 12 in		
Mounting	Wall mounting		
MTBF	<50.000 hours		

* Value valid for non duplexed units. This value can change depending on the filtering insertion loss of the duplexer.



VHF & UHF DIGITAL SIGNAL BOOSTERS 136 - 512 MHz

HONBDA-CA HONBDA-EA

HONBDA- [CABINET] A	- A	[BAND]	- [FILTERING VHF]	[FILTERING UHF]	[PORT CONFIGURATION]
Туре С		V: 136-174	ND: NO DUPLEX	ND: NO DUPLEX	BLANK: BOTH ENDS
Type E		U: 450-470	20: 2 MHz BW	07: 0.7MHz BW - Band U 450-470MHz	-DD: DONOR SIDE ONLY
		T: 470-512	35: 3.5 MHz BW	07: 0.7MHz BW - Band T 470-512MHz	-SD: SERVICE SIDE ONLY
		UT: 450-512		20: 2.0MHz BW - Band U 450-470MHz	_
		VU: 136-174+450-470		20 : 2.0MHz BW - Band T 470-512MHz	
		VT: 136-174+470-512		40: 4.0MHz BW - Band U 450-470MHz	
		VUT: 136-174+450-512		15 : 1.5MHz BW - Band T 470-512MHz	
				50: 5.0MHz BW - Band U 450-470MHz	
				MDA: 453-454/458-459 & 460-462/465-467MHz	
				WMO : 489-491/492-494 & 496.3-497/499.3-500 MHz	
				RWC : 483.4-484.5/486.4-487.5 & 488.5-489/491.5-492 MHz	
				2020 : Dual sub band 2.0MHz BW each - Band U 450-470MHz	
				0740 : Dual sub band 0.7 and 4.0MHz BW each - Band U 450-470MHz	
				0707 : Dual sub band 0.7MHz BW each - Band T 470-512MHz	
				1515 : Dual sub band 1.5MHz BW each - Band T 470-512MHz	
				0715 : Dual sub band 0.7 and 1.5MHz BW each - Band T 470-512MHz	
				2007 : Dual sub band 2.0MHz BW in Band U 450-470MHz and 0.7MHz BW in Band T 470-512MHz	
				2015 : Dual sub band 2.0MHz BW in Band U 450-470MHz and 1.5MHz BW in Band T 470-512MHz	
				2020 : Dual sub band 2.0MHz BW in Band U 450-470MHz and 2.0MHz BW in Band T 470-512MHz	

* Cabinet type depends on band and filtering options selection

* Only one filter option per band

WARNING: This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENCE 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.

Honeywell Business Solutions 715 Peachtree Street NE Atlanta, GA 30308 www.honeywell.com HON-62052.02 • 07242020 ©2020 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited. 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. Country of origin: U.S.A. THE FUTURE IS WHAT WE MAKE IT

