

# HONBDA Series Over-the-Air Public Safety Centric DAS (758-869 MHz)

## Product Features

- Specifically designed for 700 MHz and 800 MHz, LMR and Public
- Safety Applications
- 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
- Fiber Optic Redundancy features (optional)
- Preserves the far end communications and protects BTS Rx sensitivity
- Works with Public Safety Centric DAS Remotes
- Country of Origin: USA
- 3-year warranty
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (Federal Communications Commission)
- IC Approved
- IFC 2015, 2018, 2021 Edition Standard
- ISO 9001 Approved
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition Standard
- RoHS Compliant
- SGS C-US Compliant
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524



## Applications

- For P25 Ph1, P25 Ph2, DMR, TETRA, C2000, LTE (up to 960MHz) NXDN and Conventional Systems
- Indoor: tunnels, buildings, subways, airports, among others
- Outdoor: stadiums, canyons, dense urban areas, remote rural towns

Specification	Value
Fiber-Optic	Single mode
WDM	Yes
Optical Wavelengths	1310 / 1550 nM
Operational Bands	PS700, FirstNet™, PS800
Number of Channel Filters	64 channels + 4 Bandwidth Adjustable per band
Available Channel Filter BW	150 KHz, 100 KHz, 75 KHz, 62.5 KHz, 50 KHz, 37.5 KHz, 25 KHz & 12.5 KHz
Group Delay	<ul style="list-style-type: none"> <li>• Channel Selective 150KHz, 11.5µS</li> <li>• Channel Selective 100KHz, 13.5µS</li> <li>• Channel Selective 75KHz, 16.0µS</li> <li>• Channel Selective 62.5KHz, 18.0µS</li> <li>• Channel Selective 50KHz, 21.0µS</li> <li>• Channel Selective 37.5KHz, 25.5µS</li> <li>• Channel Selective 25KHz, 35.0µS</li> <li>• Channel Selective 12.5KHz, 61.5µS</li> <li>• or Band selective: 3.5 to 6.5µS, depending on BWA</li> </ul>
Supported Fiber Loss	20dBo max.
Optical Connectors	LC /APC compatible with LC/UPC

<b>Specification</b>	<b>Value</b>
Optical Return Loss	>45dB
RF Input/Output Impedance	50 $\Omega$
RF Connectors	N(f)
Overall Gain (Master + Remote)*	85dB regardless fiber length
Noise Figure	<9dB
<b>Master Unit Electrical and Mechanical Specifications</b>	<b>Value</b>
DL Manual Attenuator	20dB in 1dB steps
Maximum UL Output Power *	+24 dBm per band
UL IMD and Spurious Generation	< -13dBm
UL Manual Attenuator	20dB in 1dB steps
Max Operational DL Input Power	-35dBm
Number of Optical Ports	8
Power Supply	110VAC 60Hz or +24VDC (see Table 1)
Power Consumption (Master Unit)	70 W
Housing	NEMA4
Environmental	EN 300 019 4.1
Temperature range	-22° to +131° F • -30° to +55° C
Humidity	<95% non-condensing
Dimensions	See Table 1
MTBF	>50,000 hours
<b>Remote Unit Electrical and Mechanical Specifications</b>	<b>Value</b>
Composite Output Power, DL *	33 dBm per band
DL IMD and Spurious Generation	< -13 dBm
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
AC Supply	110/220VAC 50/60Hz
Power Consumption	100 W
DC Supply	Optional, 24-48VDC
Housing	NEMA4
Environmental	EN 300 019 4.1
Temperature Range	-22° to +131° F • -30° to +55° C
Humidity	< 95% non-condensing
Dimension and Weight	Cabinet Type "C": 27.2 x 20 x 9 in (690.88 x 508 x 228.6 mm) Cabinet Type "E": 30x 24 x 12 in (762 x 609.6 x 304.8 mm)
MTBF	> 50.000 hours
<b>Control and Alarm</b>	<b>Value</b>
Alarms Report	Via Master Unit Local: USB (POWER STATUS, MU STATUS, RM STATUS) Remote: SNMP (Ethernet)
Master Unit Configuration	Local: USB or Ethernet (Web browser) Remote: Via SNMP or Web browser
<b>Normative</b>	<b>Value</b>
Standards	ITU T G 652 EN60825-1
FCC	FCC, CFR 47, Part 15, Subpart B, Class A digital devices
FCC ID Master	P3TDH7S-3A
FCC ID Remote	P3TDH7S-4A

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

Table 1 lists the product specifications.

Model	Type	Power Supply	Dimensions	Weight
HONBDA-DH7S-A-M	Master 700MHz + FirstNet + 800MHz - Class A	AC & DC	27.2 x 20 x 9 in (690.88 x 508 x 228.6 mm)	59.52 lbs. (27 Kg)
HONBDA-A-7S33AR1	REMOTE PS700 & FirstNet & PS800 - 1 Fiber Optic Port	AC	17.7 X 17.3 X 5.1 in (449.58 x 439.2 x 129.4 mm)	52.9 lbs. (24 Kg)
HONBDA-D-7S33AR1	REMOTE PS700 & FirstNet & PS800 - 1 Fiber Optic Port	DC	17.7 X 17.3 X 5.1 in (449.58 x 439.2 x 129.4 mm)	52.9 lbs. (24 Kg)
HONBDA-A-7S33AR2	REMOTE PS700 & FirstNet & PS800 - 2 Fiber Optic Port	AC	17.7 X 17.3 X 5.1 in (449.58 x 439.2 x 129.4 mm)	52.9 lbs. (24 Kg)
HONBDA-D-7S33AR2	REMOTE PS700 & FirstNet & PS800 - 2 Fiber Optic Port	DC	17.7 X 17.3 X 5.1 in (449.58 x 439.2 x 129.4 mm)	52.9 lbs. (24 Kg)

**Table 1 Product Specifications**

## Ordering Information

**HONBDA-DH7S-A-M:** PS 700 + 800MHz Public Safety Centric DAS Master, incl Band 14, class A & B, 0.25W /+24dBm UL, AC & DC. NFPA compliant, UL2524 2nd Edition HONEYWELL PSC Fiber DAS

**HONBDA-A-7S33AR1:** PS 700 + 800MHz Public Safety Centric DAS Remote, including Band 14, class A, 2W/+33dBm per band, AC. NFPA compliant, UL2524 2nd Edition HONEYWELL PSC Fiber DAS

**HONBDA-D-7S33AR1:** PS 700 + 800MHz Public Safety Centric DAS Remote, including Band 14, class A, 2W/+33dBm per band, DC. NFPA compliant, UL2524 2nd Edition HONEYWELL PSC Fiber DAS

**HONBDA-A-7S33AR2:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE. 758-869MHz. PS800 + PS700 + FIRSTNET, Dual Band, +33dBm per band, 64 Channels per band, 2 optical port, AC, UL2524 2nd Edition Listed HONEYWELL Fiber DAS

**HONBDA-D-7S33AR2:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE. 758-869MHz. PS800 + PS700 + FIRSTNET, Dual Band, +33dBm per band, 64 Channels per band, 2 optical port, DC, UL2524 2nd Edition Listed HONEYWELL Fiber DAS

## Standards and Codes

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- Buy American Compliant: meets the definition of Domestic Construction Material under the Buy American Act
- FCC Compliant
- IFC 2015, 2018, 2021 Edition Standard
- ISO 9001 PECB Certified
- Made in America Compliant
- NFPA 72, 2013 Edition Standard
- NFPA 1221, 2016, 2019 Edition Standard
- ROHS compliant
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524



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.  
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