

# FLEX SERIES BDA

## HIGH POWER OVER-THE-AIR PUBLIC SAFETY CENTRIC DAS (758 - 869MHz)

**HONBDA-A/D-7S37AR1/AR2**

### Product Features

- Specifically designed for 700 MHz and 800 MHz, LMR and Public Safety Applications
- Redundancy features
- Reduced infrastructure cost without the need for a “Front-End BDA” or “POI”
- Programmable uplink squelch (per channel and time slot) for reduced UL noise contribution
- Software-programmable channel/band selection 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 far end communications and protects BTS Rx sensitivity
- Works with Public Safety Centric DAS Remotes (DH Series)
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FC 2015, 2018, 2021 Edition Standard
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition Standard
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524.



### Applications

- 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 town

### Specifications

	Value
Fiber Optic	Single mode
WDM	Yes
Optical Wavelengths	1310 / 1550 nM
Operational Bands	64 channels + 4BD adjustable per band
Number of Channel Filters	PS700, FirstNet™, PS800
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 Channel Selective 12.5kHz, 61.5µS 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)	85dB regardless fiber length
Noise Figure	<9 dB

## Master Unit Electrical and Mechanical Specifications

### Value

DL Manual Attenuator	20dB in 1dB steps
Maximum UL Output Power	+24dBm per band
UL IM 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 & +24/-48VDC
Power Consumption	80 W
Housing	NEMA4
Temperature Range	-22° to +131° F • -30° to +55° C
Humidity	<95% non condensing
Dimension and Weight	See Table 1
MTBF	>50,000 hours

## Remote Unit Electrical and Mechanical Specifications

### Value

Composite Output Power, DL	37dBm per band
DL IMD and Spurious Generation	< -13dBm
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	170 W
DC Supply	Optional, 24-48VDC
Housing	NEMA4
Temperature Range	-22° to +131° F • -30° to +55° C
Humidity	< 95% non condensing
Dimension and Weight	See Table 1
MTBF	> 50.000 hours

## Control and Alarms

### Value

Alarms Report	<ul style="list-style-type: none"><li>• Via Master Unit</li><li>• Local: USB (POWER STATUS, MU STATUS, RM STATUS)</li><li>• Remote: SNMP (Ethernet)</li></ul>
Master Unit Configuration	<ul style="list-style-type: none"><li>• Local: USB or Ethernet (Web browser)</li><li>• Remote: Via SNMP or Web browser</li></ul>

## Normative

### Value

Standards	<ul style="list-style-type: none"><li>• ITU T G 652</li><li>• EN60825-1</li></ul>
FCC	<ul style="list-style-type: none"><li>• FCC</li><li>• CFR 47</li><li>• Part 15</li><li>• Subpart B</li><li>• Class A digital devices</li></ul>
FCC ID Remote	P3TDH7S-5A
FCC ID Master	P3TDH7S-5A

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DAS (758 - 869MHz)

HONBDA-A/D-7S37AR1/AR2

Model	Type	PWR Supply	Dimension	Weight
HONBDA-DH7S-A-M	Master 700MHz + FirstNet™ + 800MHz - Class A	AC & DC	27.2 x 20 x 9in (690.88 x 508 x 228.6mm)	59.52 lbs. (27 kg)
HONBDA-A-7S37AR1	REMOTE PS700 & FirstNet & PS800 - 1 Fiber Optic Port	AC	30 x 24 x 18in (762 x 609.6 x 468.95mm)	160 lbs. (72 kg)
HONBDA-D-7S37AR1	REMOTE PS700 & FirstNet & PS800 - 1 Fiber Optic Port	DC	30 x 24 x 18in (762 x 609.6 x 468.95mm)	160 lbs. (72 kg)
HONBDA-A-7S37AR2	REMOTE PS700 & FirstNet & PS800 - 2 Fiber Optic Port	AC	30 x 24 x 18in (762 x 609.6 x 468.95mm)	160 lbs. (72 kg)
HONBDA-D-7S37AR2	REMOTE PS700 & FirstNet & PS800 - 2 Fiber Optic Port	DC	30 x 24 x 18in (762 x 609.6 x 468.95mm)	160 lbs. (72 kg)

**ORDERING INFORMATION**

- **HONBDA-A-7S37AR1:** PS 700 + 800MHz Public Safety Centric DAS Remote, including Band 14, class A, 5W/+37dBm per band, AC,NFPA compliant, UL2524 2nd Edition HONEYWELL PSC Fiber DAS
- **HONBDA-D-7S37AR1:** PS 700 + 800MHz Public Safety Centric DAS Remote, including Band 14, class A, 5W/+37dBm per band, DC,NFPA compliant, UL2524 DAS
- **HONBDA-A-7S37AR2:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE. 758-869MHz. PS800 + PS700 + FIRSTNET, Dual Band, +37dBm per band, 64 Channels per band, 2 optical port, AC,UL2524 2nd Edition Listed HONEYWELL Fiber DAS
- **HONBDA-D-7S37AR2:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE. 758-869MHz. PS800 + PS700 + FIRSTNET, Dual Band, +37dBm per band, 64 Channels per band, 2 optical port, DC, UL2524 2nd Edition Listed HONEYWELL Fiber DAS

**STANDARDS AND CODES**

The HONBDA-A/D-7S37AR1 and HONBDA-A/D-7S37AR2 comply with the following standards and codes.

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

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