FLEX SERIES BDA HONBDA-A/D-7S37AR1/AR2 HIGH POWER OVER-THE-AIR PUBLIC SAFETY CENTRIC DAS (758 - 869MHz)

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

- IFC 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.

REMOTE   *MASTER*

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 /1550nM
Operational bands	64 channels + 4BD adjustable per band
Number of channel Filters	PS700, FirstNet[TM], PS800
Available channel Filter BW	• 150KHz • 100KHz • 75KHz • 62.5KHz • 50KHz • 37.5KHz • 25KHz & 12.5KHz

Specifications	Value
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 /APC compatible with 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	<9dB

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	80W
Housing	NEMA4
Environmental	EN 300 019 4.1
Temperature range	-22º to +131ºF • -30º to +55ºC
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 1dB steps +/- 0.5dB
AC Supply	110/220VAC 50/60Hz
Power Consumption	190W
DC Supply	Optional, 24-48VDC
Housing	NEMA4
Environmental	EN 300 019 4.1
Temperature range	-22º to +131ºF • -30º to +55ºC
Humidity	<95% non-condensing
Dimension and weight	See Table 1
MTBF	>50.000 hours

Control and Alarms	Value
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

Normative	Value
Standards	• ITU T G 652 • EN60825-1
FCC	• FCC • CFR 47 • Part 15 • Subpart B • Class A digital devices
FCC ID Remote	P3TDH7S-5A
FCC ID Master	P3TDH7S-5A

Table 1 lists the product specifications.

Model	Type	PWR Supply	Dimension	Weight
HONBDA-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 1in (762 x 609.6 x 406.4mm)	79.36 lbs. (36 kg)
HONBDA-D-7S37AR1	REMOTE PS700 & FirstNet™ & PS800 - 1 Fiber Optic Port	DC	30 x 24 x 1in (762 x 609.6 x 406.4mm)	79.36 lbs. (36 kg)

Table 1 Product Specifications

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

ISO 9001
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