FLEX SERIES BDA
700/800 SMALL PUBLIC SAFETY CENTRIC DAS 758-869MHZ

HONBDA-A/D-7S33A-M

Product Features

- Small DAS system with one Master-Remote and two Remotes
- Master-Remote unit is a mix of DAS Master and DAS Remote, has “to mobiles” output.
- Specifically designed for 700MHz and 800MHz, 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, protects BTS Rx sensitivity
- 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, preserves the far end communications
- IFC 2015, 2018, 2021 Edition
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524.
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act



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 /1550nM08/01/2023
Operational Bands	PS700,FirstNet™, PS800
Number of Channel Filters	32 channels + 2 BW adjustable per band
Available Channel Filter BW	• 150kHz • 100kHz • 75kHz • 62.5kHz • 50kHz • 37.5kHz • 25kHz & 12.5kHz
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)

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Specifications	Value
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	2
RF Output Port “To mobile”	1
Composite Output Power “To mobile”	+33dBm per band
Power Supply	110VAC 60Hz & +24VDC
Power Consumption	80W
Housing	NEMA4
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	33dBm per band
DL IMD and Spurious Generation	< -13dBm
Number of Optical Ports	1
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	80W
DC Supply	Optional, +24VDC
Housing	NEMA4
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 Master	P3TDH7S-3A

FLEX SERIES BDA
700/800 SMALL PUBLIC SAFETY CENTRIC DAS 758-869MHZ

HONBDA-A/D-7S33A-M

Normative	Value
FCC ID Remote	P3TDH7S-3A

Table 1 lists the product specifications.

Model	Type	PWR Supply	Dimension	Weight
HONBDA-A-7S33A-M	Master 700MHz + FirstNet™ + 800MHz - Class A	AC	17.7x 17.3 x 5.1in (449.58 x 439.42 x 129.54mm)	52.91 lbs. (24 kg)
HONBDA-D-7S33A-M	MASTER 700Mhz + FirstNet™ + 800Mhz - Class A	DC	17.7x 17.3 x 5.1in (449.58 x 439.42 x 129.54mm)	52.91 lbs. (24 kg)
HONBDA-A-7S33A-R	REMOTE 700Mhz + FirstNet™ + 800Mhz - Class A	AC	17.7x 17.3 x 5.1in (449.58 x 439.42 x 129.54mm)	52.91 lbs. (24 kg)
HONBDA-D-7S33A-R	REMOTE 700Mhz + FirstNet™ + 800Mhz - Class A	DC	17.7x 17.3 x 5.1in (449.58 x 439.42 x 129.54mm)	52.91 lbs. (24 kg)

ORDERING INFORMATION

- **HONBDA-D-7S33A-M**: Fiber DAS. OTA PUBLIC SAFETY CENTRIC SMALL DAS MASTER. 758-869MHz. PS800 + PS700 + FIRSTNET™, Dual Band, 32 Channels per band, 2 optical ports, 1 RF Output port +33dBm per band, DC,UL2524 2nd Edition Listed HONEYWELL Fiber DAS
- **HONBDA-D-7S33A-R**: Fiber DAS. OTA PUBLIC SAFETY CENTRIC SMALL DAS REMOTE. 758-869MHz. PS800 + PS700 + FIRSTNET™ Dual Band, +33dBm per band, 32 Channels per band, 1 optical port, DC,UL2524 2nd Edition Listed HONEYWELL Fiber DAS
- **HONBDA-A-7S33A-M**: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER. 758-869MHz. PS800 + PS700 + FIRSTNET™, Dual Band, 32 Channels per band, 2 optical ports, 1 RF Output port +33dBm per band, AC,UL2524 2nd Edition Listed HONEYWELL Fiber DAS
- **HONBDA-A-7S33A-R**: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE. 758-869MHz. PS800 + PS700 + FIRSTNET™, Dual Band, +33dBm per band, 32 Channels per band, 1 optical port, AC,UL2524 2nd Edition Listed HONEYWELL Fiber DAS

STANDARDS AND CODES

The HONBDA-A/D-7S33A-M and HONBDA-A/D-7S33A-R 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 alarms
- ROHS compliant
- UL2524 2nd Edition Standard 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.
All specifications are subject to change without notice.

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