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

HONBDA-A/D-7S33A-M

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, protects BTS Rx sensitivity
- Software programmable channel selective or band selective operation, suitable for highly congested RF environments
- Centralized operation, single point of access
- Automatic gain control per channel and time slot, preserves the far end communications
- 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.
- 3 Year Warranty
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (Federal Communications Commission-US)
- Industrial Canada (IC) Compliant
- IFC 2015, 2018, 2021 Edition Standards
- ISO 9001 Compliant
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition, and NFPA 1225 2022 Edition
- RoHS Compliant
- UL2524 3rd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524



Applications

- For P25 Phase I & Phase II, DMR, TETRA, C2000, LTE (up to 960 MHz) NXDN and Conventional Systems
- Indoor Coverage: Buildings, subways, airports, and among others
- Outdoor Coverage: Stadiums, canyons, dense urban areas, remote rural areas

Specification	Value
Fiber-Optic	Single mode
Operational Bands	PS700, FirstNet™, PS800
WDM	Yes
Optical Wavelengths	1310 / 1550 Nm
Number of Channel Filters	32 channels + 2 BW adjustable per band
Available Channel Filter BW	100 KHz, 150 KHz, 75 KHz, 62.5 KHz, 50 KHz, 37.5 KHz, 25 KHz & 12.5 KHz
Group Delay	Channel Selective 150 KHz, 11.5 µS Channel Selective 100 KHz, 13.5 µS Channel Selective 75 KHz, 16.0 µS Channel Selective 62.5 KHz, 18.0 µS Channel Selective 50 KHz, 21.0 µS Channel Selective 37.5 KHz, 25.5 µS Channel Selective 25 KHz, 35.0 µS Channel Selective 12.5 KHz, 61.5 µS or Band selective: 3.5 to 6.5 µS, depending on BWA
Supported Fiber Loss	20 dBo max
Optical Connectors	LC/UPC
Optical Return Loss	>45 dB
RF Input/Output Impedance	50 Ohms (Ω)
RF Connector	N (f) as standard

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Specification	Value
Overall Gain (Master + Remote)*	85 dB regardless fiber length
Noise Figure	9.0 dB at Maximum Gain

Master Unit Electrical and Mechanical Specifications	Value
Power Supply	110 VAC, 60 Hz or +24 VDC
Power Consumption	80 W
Maximum Output Power (UL)	+24 dBm per band
UL IM and Spurious Generation	< -13 dBm
Max Operational DL Input Power	-35 dBm
Manual Attenuator (DL)	20 dB in 1dB steps
Manual Attenuator (UL)	20 dB in 1dB steps
Number of Optical Ports	2
RF Output Port “To mobile”	1
Composite Output Power (To mobile)	+33 dBm per band
Housing/Enclosure Rating	NEMA4
Operating Temperature Range	-22º to +131º F (-30º to +55º C)
MTBF	50,000 hours
Humidity	< 95% non-condensing

Remote Unit Electrical and Mechanical Specifications	Value
Power Supply	110/220 VAC 50/60 Hz or Optional, +24 VDC
Power Consumption	80 W
Composite Output Power (DL)	33 dBm per band
DL IDM and Spurious Generation	< -13 dBm
UL Maximum Input Power	0 dBm
Manual Attenuator	20 dB in 1 dB steps +/- 0.5 dB
Number of Optical Ports	1
Number of Remote units	Up to 56 Remote units
UL Noise Reduction	UL squelch per channel, programmable
Housing/Enclosure Rating	NEMA4
Operating Temperature Range	-22º to +131º F (-30º to +55º C)
MTBF	50.000 hours
Humidity	< 95% non-condensing

Table 1 lists the product specification

Model	Type	PWR Supply	Dimension	Weight
HONBDA-A-7S33A-M	Master 700 MHz + FirstNetTM + 800 MHz - 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 700 MHz + FirstNetTM + 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 700 MHz + FirstNetTM + 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 700 MHz + FirstNetTM + 800 MHz - Class A	DC	17.7x 17.3 x 5.1in (449.58 x 439.42 x 129.54mm)	52.91 lbs. (24 kg)

Table 1. Product Specification

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

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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/License/Certification	Value
Standards	ITUT 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-3A
UL ID	SGSNA/21/SUW/00025X

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

Ordering Information

HONBDA-D-7S33A-M: Fiber DAS. OTA PUBLIC SAFETY CENTRIC SMALL DAS MASTER. 758-869MHz. PS800 + PS700 + FIRSTNETTM, 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 + FIRSTNETTM 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 + FIRSTNETTM, 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 + FIRSTNETTM, 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 units comply with the following standards and codes.

- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (Federal Communications Commission-US)
- Industrial Canada (IC) Compliant
- IFC 2015, 2018, 2021 Edition Standard
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition, and NFPA 1225 2022 Edition Standard
- RoHS Compliant
- UL2524 3rd 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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