FLEX SERIES BDA HONBDA-A/D-7S33A-M

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

The HONBDA-A/D-7S33A-M/R is a small DAS System consisting of one Master-Remote and two Remote units.The System offers reduced infrastructure cost and noise contribution.



The DAS System operations are centralized and are suitable for highly congested RF environments. It is designed for 700 MHz and 800 MHz, LMR and Public Safety Applications. The AGC per channel and time slot, preserves far end communications and protects the BTX sensitivity.

The software-programmable channel/band selection options are suitable for highly congested RF environments.

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 towns

FEATURES AND BENEFITS

- 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
- Master-Remote unit is a mix of DAS Master and DAS Remote, and offers “to mobiles” output.
- Specifically designed for 700 MHz and 800 MHz, LMR and Public Safety Applications
- Fiber Optic redundancy features (optional).
- 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, suitable for highly congested RF environments
- Centralized operation, single point of access
- AGC per channel and time slot
- Preserves far end communications and protects BTS Rx sensitivity.

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Table 1 lists the product specifications.

Model	Type	PWR Supply	Dimension B	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)

Table 1 Product Specifications

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

FLEX SERIES BDA HONBDA-A/D-7S33A-M TECHNICAL SPECIFICATIONS

SPECIFICATIONS

Fiber Optic: Single Mode
WDM: Yes
Optical wavelengths: 1310 / 1550nM
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
- 100KHz, 13.5µS
- 75KHz, 16.0µS
- 62.5KHz, 18.0µS
- 50KHz, 21.0µS
- 37.5KHz, 25.5µS
- 25KHz, 35.0µS
- 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

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
Power Supply: +24VDC
Power consumption: 80W
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: See Table1
MTBF: >50,000 hours

REMOTE UNIT ELECTRICAL AND MECHANICAL SPECIFICATIONS

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 +/- 0.5 dB
AC Supply: 110/220VAC 50/60Hz
Power Consumption: 80W
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: See Table1
MTBF: >50.000 hours

CONTROL AND ALARMS

Alarms report: Via Master Unit Local: USB (POWER STATUS, MU STATUS, RM STATUS)
Master Unit Configuration: Local: USB

NORMATIVE

Standards: ITU T G 652 and EN60825-1
FCC: FCC, CFR 47, Part 15, Subpart B, Class A digital devices
FCC ID Remote: P3TDH7S-3A
FCC ID Master: P3TDH7S-3A

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

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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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