FLEX 2.0 - Public Safety Centric DAS Expansion (136 - 869 MHz)

HONBDA-EXP-x

Product Features

- Specifically designed for LMR and Public Safety Applications
- Works with FLEX and ***FLEX 2.0*** Public Safety Centric DAS Remote Units
- Works with ***FLEX 2.0**** Public Safety Centric DAS Master Units
- This Expansion Unit can expand each of the 8 fiber ports of a ***FLEX 2.0**** Master Unit into additional 7 Fiber ports
- Allowing a ***FLEX 2.0**** system to grow up to 56 Remote Units
- Single stock item, field-programmable for |VHF + UHF| or |700MHz + Band14 + 800 MHz|
- **Distribution Sites can be created.** Expansion Unit does not need to be located with the Master Unit. It can be installed on a different location using a fiber with up to 20dBo of optical loss
- Specific SKU for 380-400 MHz or 406-439 MHz bands
- Rack Mount version
- NEMA4 cabinet version, **UL50 Certified**
- 3 Year Warranty
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (Federal Communications Commission)
- 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 2024 Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524 (for NEMA4 Versions)



Applications

- For P25 Ph1, P25 Ph2, DMR, TETRA, C2000, LTE (up to 960MHz) NXDN and Conventional Systems
- Indoor Coverage: Tunnels, buildings, subways, airports, among others
- Outdoor Coverage: Stadiums, canyons, dense urban areas, and remote rural towns

Specification	Value
Fiber-Optic	Single Mode
Power Supply	110 VAC 60 Hz & +24/-48 VDC
Power Consumption	40 W
Operational Bands	| VHF + UHF | or | PS700 + Band14 + PS800 |
WDM	Yes (one fiber to connect Master to Expansion, and one fiber per Remote)
Optical Wavelengths	1270 / 1330 nm
Number of Channel Filters	64 channels + 4 Bandwidth Adjustable per band
Available Channel Filter BW	For 700/800MHz: 150KHz, 100KHz, 75KHz, 62.5KHz, 50KHz, 37.5KHz, 25KHz, 12.5KHz For UHF/VHF: 100kHz, 75kHz, 62.5kHz, 50kHz, 37.5kHz, 25kHz, 12.5kHz
Supported Fiber Loss	20dBo max
Optical Return Loss	>45 dB
Number of Optical Ports	8 (1 for Master Connection, 7 for Remote Units)
Optical Connectors	LC/UPC
Overall Gain (Master + Remote)	It does not affects the DL or UL Gain form Master to Remote, regardless fiber length

* A ***FLEX 2.0*** Master Unit is any PSC DAS Master Unit with firmware version equal or greater than **[SW: 5.00]**

** A ***FLEX 2.0*** Remote Unit is any PSC DAS Remote Unit with firmware version equal or greater than **[SW: 3.00]**.

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Specification	Value
Noise Figure	It does not affect the UL and DL Noise performance between Master and Remotes
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 or Band selective: 3.5 to 6.5µS, depending on BWA
Housing	Rack mount, 1 RU
Enclosure Rating	NEMA4
Operating Temperature Range	-22º to +131ºF (-30º to +55ºC)
Cooling	Natural Convection
MTBF	100,000 hours
Environmental	IP30
Humidity	<95% non-condensing

* Value valid for non duplexed units. This value can change depending on the filtering insertion loss of the duplexer.

Model	Type	Dimension	Weight
HONBDA-EXP-RM	Rack mount, VHF + UHF or 700 + 800 Public Safety Centric DAS Expansion Unit, Expands 1 to 7 Remotes, FIPLEX BY HONEYWELL	19 in (482.6mm) rack, 1 RU	20lbs. (9kg)
HONBDA-EXP-RM-LB	Rack mount, UHF 380-400 or 406-439 MHz Public Safety Centric DAS Expansion Unit, Expands 1 to 7 Remotes, FIPLEX BY HONEYWELL	19 in (482.6mm) rack, 1 RU	20lbs. (9kg)
HONBDA-EXP-NEMA	VHF + UHF or 700 + 800 Public Safety Centric DAS Expansion Unit, AC & DC. NFPA compliant, UL2524 2nd Edition FIPLEX BY HONEYWELL PSC Fiber DAS	19 in (482.6mm) rack, 1 RU	59.5lbs.(27kg)
HONBDA-EXP-NEMA-LB	UHF 380-400 or 406-439 MHz Public Safety Centric DAS Expansion Unit, AC & DC. NFPA compliant, UL2524 2nd Edition FIPLEX BY HONEYWELL PSC Fiber DAS	19 in (482.6mm) rack, 1 RU	59.5lbs.(27kg)

Control and Alarms	Value
Alarms Report	Via Master Unit Local: USB Dry Contact local or Dry Contact via serial connection to Next Gen BBU
Unit Configuration	Local: USB

Normative/License/Certification	Value
Standards	ITU T G 652 EN60825-1
FCC ID	FCC, CFR 47, Part 15, Subpart B, Class A digital devices
UL ID	SGSNA/21/SUW/00050X

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-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 and, +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-7S27B 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)
- Industrial Canada (IC) Compliant
- IFC 2015, 2018, 2021 Edition Standards
- ISO 9001 Compliant
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition, NFPA 1225 2022 Edition
- RoHS Compliant
- UL2524 3rd Edition Listing 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.
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