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

HONBDA-EXP-x

Product Features

- 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**
- Specifically designed for LMR and Public Safety Applications
- NEMA4 cabinet version, **UL50 Certified**
- Rack Mount version
- **Distribution Sites can be created**. Expansion Unit does not need to be co-located with the Master Unit. It can be installed on a different location using a fiber with up to 20dBo of optical loss.
- Works with ***FLEX 2.0**** Public Safety Centric DAS Master Units
- Works with FLEX and ***FLEX 2.0*** Public Safety Centric DAS Remote Units
- Single stock item, field-programmable for |VHF + UHF| or |700MHz + Band14 + 800 MHz|
- Specific SKU for 380-400 MHz or 406-439 MHz bands.
- IFC 2015, 2018, 2021 Edition Standard
- NFPA 72 2019 Edition, NFPA 1225 2022 Edition Standard



Applications

- For P25 Ph1, P25 Ph2, DMR, TETRA, C2000 and Conventional Systems.
- Tunnels, buildings, subways, airports, stadiums, building campuses, etc.

Specifications	Value
Fiber-Optic	Single mode Single mode
WDM	Yes (one fiber to connect Master to Expansion, and one fiber per Remote)
Optical Wavelengths	1270 / 1330 nm
Operational Bands	| VHF + UHF | or | PS700 + Band14 + PS800 |
Group Delay	0.7µS for | PS700 + Band14 + PS800 | 0.5uS for | VHF + UHF | 0.5uS for | 380-400 and 406-439 MHz |
Supported Fiber Loss	20dBo max.
Optical Return Loss	>45dB
Overall Gain (Master + Remote)	It does not affects the DL or UL Gain form Master to Remote, regardless fiber length
Optical Connectors	LC / UPC
Number of Optical Ports	8 (1 for Master Connection, 7 for Remote Units)
Noise Figure	It does not affect the UL and DL Noise performance between Master and Remotes
Power Supply	110VAC 60Hz & +24 VDC
Power Consumption	40W
Housing	Rack mount, 1 RU
Environmental	IP30
Temperature Range	-22º to +131º F • -30º to +55º C
Humidity	<95% non-condensing
Dimension and Weight	See table at the end of the document
MTBF	100,000 hours
Alarms Report	Via Master Unit Local: USB Dry Contact local or Dry Contact via serial connection to Next Gen BBU
Unit Configuration	Local: USB
Standards	ITU T G 652 EN60825-1
FCC	FCC, CFR 47, Part 15, Subpart B, Class A Digital devices

* 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].**

fiplex by Honeywell

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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)

Ordering Information

HONBDA-EXP-RM: Rack mount, VHF + UHF or 700 + 800 Public Safety Centric DAS Expansion Unit, Expands 1 to 7 Remotes, FIPLEX BY HONEYWELL

HONBDA-EXP-RM-LB: Rack mount, UHF 380-400 or 406-439 Public Safety Centric DAS Expansion Unit, Expands 1 to 7 Remotes, FIPLEX BY HONEYWELL

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

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

Standards and Codes

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for latest listing status.

- FCC (Federal Communications Commission) Complaint
- IC Compliant
- IFC 2015, 2018, 2021 Edition Standard
- ISO 9001 PECB Certified
- NFPA 72 2019 Edition, NFPA 1225 2022 Edition Standard
- RoHS Compliant
- UL2524 3rd Edition 2024 Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524 (for NEMA4 Versions)

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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