FLEX 2.0 - Public Safety Centric DAS Master (136-869 MHz) (380-400 MHz) (406.1-439 MHz)

HONBDA-7S-D-RMA
HONBDA-DRMA-Lx

Product Features

- Specifically designed for LMR and Public Safety Applications
- New ***FLEX 2.0**** Alarming Features. All alarms of all the Remotes and BBUs of the System are available at the Master Unit.
- ***FLEX 2.0**** Enhanced Scalability and Flexibility – Remote Unit connection count capability up to 56 using Expansion Units.
- Single stock item, field-programmable for |VHF+UHF| or |700MHz+ FirstNet+800MHz|
- Enhanced ***FLEX 2.0*** Redundancy Features (optional)
- New improved ***FLEX 2.0*** user-friendly Graphic User Interface
- Inclusion of ***FLEX 2.0***'Multiple AGC modes to allow extra Uplink Output Power Per Channel.
- Remote Units equipped with Uplink Squelch and AGC per Channel and Time-Slot (support for P25PH2) to provide truly reduced UL Noise contribution and Near-Far effect mitigation.
- Upon expansion of an existing system, no need to recommission the previously installed sections.
- Isolation Measurement and Isolation Detection in a per Remote Basis. Upon oscillation detection, only the affected area will be turned off.
- Software programmable channel selective or band selective operation, suitable for highly congested RF environments.
- Centralized operation form Master Unit. Single point of access
- Also available for 380-400MHz and 406.1-439MHz.
- 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, 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, 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, PS700 + Band14 + PS800 (see SKUs at the end of this document) 380 - 400MHz (see SKUs at the end of this document) 406.1 - 439 MHz (see SKUs at the end of this document)
WDM	Yes
Optical Wavelengths	1270/1330 Nm
Number of channel Filters	64 channels + 4 Bandwidth Adjustable per band

* 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

Specification	Value
Available Channel Filter BW	For 700/800MHz: 150KHz, 100KHz, 75KHz, 62.5KHz, 50KHz, 37.5KHz, 25KHz, 12.5KHz For UHF/VHF/380-400MHz/406.1-439MHz: 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)	85dB in DL, 55dB in UL, regardless per length
Noise Figure	<9dB
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
RF Input/Output Impedance	50 Ohms (Ω)
Max Operational DL Input Power	-35dBm
DL Manual Attenuator	30dB in 1dB steps
Maximum UL Output Power	-6dBm
UL IM and Spurious Generation	<-13dBm
UL Manual Attenuator	30dB in 1dB steps
RF Connectors	SMA (f)
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-7S-D-RMA	VHF + UHF / PS700 + FirstNet + PS800, Class A, 8 ports	19 x14.3 x 1.7 in (482.6 x 363.15 x 43 mm) Rack, 1 RU	20 lbs. (9 kg)
HONBDA-DRMA-L1	Fiber DAS. DIRECT FEED PUBLIC SAFETY CENTRIC DAS MASTER, Rack mount, UHF 380-400MHz, 24dBm, direct connection, No internal Duplexer, 64ch filters (Class A) + 4 Adb BW (Class B) per band, 8 optical ports, non-over-the-air.	19 x14.3 x 1.7 in (482.6 x 363.15 x 43 mm) Rack, 1 RU	20 lbs. (9 kg)
HONBDA-DRMA-L2	Fiber DAS. DIRECT FEED PUBLIC SAFETY CENTRIC DAS MASTER, Rack mount, UHF 406-439MHz, 24dBm, direct connection, No internal Duplexer, 64ch filters (Class A) + 4 Adb BW (Class B) per band, 8 optical ports, non-over-the-air	19 x14.3 x 1.7 in (482.6 x 363.15 x 43 mm) Rack, 1 RU	20 lbs. (9 kg)

Control and Alarms	Value
Alarms Report	At Master Unit via USB: Master Unit, Expansion Unit and Remote Unit Status. At Master Unit via Web browser: Master Unit, Expansion Unit and Remote Unit Status At Master Unit via SNMP: Master Unit, Expansion Unit and Remote Unit Status At Master Unit, alarms of Master Unit, Expansion Unit and Remote Unit Status can be reported via local Dry Contact or via serial connection to Next Gen BBU At Remote Unit via USB: Remote Unit Status At Remote Unit, alarms of Remote Unit can be reported via local Dry Contact or via serial connection to Next Gen BBU
Unit Configuration	Local: USB or Ethernet (Web browser) Remote: Via SNMP or Web browser

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-7S-D-RMA: Rack mount, VHF + UHF or 700 + 800 + Band 14, direct connection, 64ch filters (Class A) + 4 Adb BW (Class B) per band, 8 optical ports, non-over-the-air, FIPLEX BY HONEYWELL DAS

HONBDA-DRMA-L1: Fiber DAS. DIRECT FEED PUBLIC SAFETY CENTRIC DAS MASTER, Rack mount, UHF 380-400MHz, 24dBm, direct connection, No internal Duplexer, 64ch filters (Class A) + 4 Adb BW (Class B) per band, 8 optical ports, non-over-the-air, FIPLEX BY HONEYWELL DAS

HONBDA-DRMA-L2: Fiber DAS. DIRECT FEED PUBLIC SAFETY CENTRIC DAS MASTER, Rack mount, UHF 406-439MHz, 24dBm, direct connection, No internal Duplexer, 64ch filters (Class A) + 4 Adb BW (Class B) per band, 8 optical ports, non-over-the-air, FIPLEX BY HONEYWELL DAS

Standards and Codes

The HONBDA-7S-D-RMA/HONBDA-DRMA-Lx 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.
All specifications are subject to change without notice.

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