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

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

Product Features



- Single stock item, field-programmable for |VHF+UHF| or |700MHz+ FirstNet+800MHz|.
- Also available for 380-400MHz and 406.1-439MHz.
- Specifically designed for LMR and Public Safety Applications.
- ***FLEX 2.0**** Enhanced Scalability and Flexibility – Remote Unit connection count capability up to 56 using Expansion Units.
- New improved ***FLEX 2.0**** user-friendly Graphic User Interface.
- New ***FLEX 2.0**** Alarming Features. All alarms of all the Remotes and BBUs of the System are available at the Master Unit.
- Enhanced ***FLEX 2.0**** Redundancy Features (optional).
- 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.
- IFC 2015, 2018, 2021 Edition Standard
- NFPA 72 2019 Edition, NFPA 1225 2022 Edition Standard

Applications

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

<table>
<tr><th>Specifications</th><th>Value</th></tr>
<tr><td>Fiber-Optic</td><td>Single mode Single mode</td></tr>
<tr><td>WDM</td><td>Yes</td></tr>
<tr><td>Optical Wavelengths</td><td>1270 / 1330 nm</td></tr>
<tr><td>Operational Bands</td><td>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)</td></tr>
<tr><td>Number of Channel Filters</td><td>64 channels + 4 Bandwidth Adjustable per band</td></tr>
<tr><td>Available Channel Filter BW</td><td>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</td></tr>
<tr><td>Group Delay</td><td>
<table>
<tr><th>700/800MHz</th><th>UHF / VHF / 380-400MHz / 406.1-439MHz</th></tr>
<tr><td>Channel Selective 150KHz, 11.5µS</td><td></td></tr>
<tr><td>Channel Selective 100KHz, 13.5µS</td><td>Channel Selective 100kHz, 12.6µS</td></tr>
<tr><td>Channel Selective 75KHz, 16.0µS</td><td>Channel Selective 75kHz, 14.9µS</td></tr>
<tr><td>Channel Selective 62.5KHz, 18.0µS</td><td>Channel Selective 62.5kHz, 16.8µS</td></tr>
<tr><td>Channel Selective 50KHz, 21.0µS</td><td>Channel Selective 50kHz, 19.6µS</td></tr>
<tr><td>Channel Selective 37.5KHz, 25.5µS</td><td>Channel Selective 37.5kHz, 24.1µS</td></tr>
<tr><td>Channel Selective 25KHz, 35.0µS</td><td>Channel Selective 25kHz, 33.4µS</td></tr>
<tr><td>Channel Selective 12.5KHz, 61.5µS</td><td>Channel Selective 12.5kHz, 62.1µS</td></tr>
<tr><td>or Band selective: 3.5 to 6.5µS, depending on BWA</td><td>or Band selective: 3.5 to 6.5µS, depending on BWA</td></tr>
</table>
</td></tr>
<tr><td>Supported Fiber Loss</td><td>20dBo max.</td></tr>
<tr><td>Optical Return Loss</td><td>>45dB</td></tr>
<tr><td>RF Input/Output Impedance</td><td>50 Ω</td></tr>
<tr><td>Max Operational DL Input Power</td><td>-35dBm</td></tr>
<tr><td>DL Manual Attenuator</td><td>30dB in 1dB steps</td></tr>
<tr><td>Maximum UL Output Power</td><td>-6 dBm</td></tr>
<tr><td>UL IM and Spurious Generation</td><td>< -13dBm</td></tr>
<tr><td>UL Manual Attenuator</td><td>30dB in 1dB steps</td></tr>
<tr><td>Overall Gain (Master + Remote)</td><td>85dB in DL, 55dB in UL, regardless per length</td></tr>
<tr><td>RF Connectors</td><td>SMA (f)</td></tr>
</table>

* 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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Public Safety Centric DAS Master (136-869 MHz)

HONBDA7S-D-RMA
HONBDA-DRMA-Lx

Specifications	Value
Optical Connectors	LC / UPC
Number of Optical Ports	8 (for Remote Unit and Expansion Unit connection)
Noise Figure	<9dB
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

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.
Master Unit Configuration	Local: USB or Ethernet (Web browser) Remote: Via SNMP or Web browser

Normative	Value
Standards	ITU T G 652 EN60825-1
FCC	FCC, CFR 47, Part 15, Subpart B, Class A Digital devices
FCC ID	P3TDH14-3A / P3TDH14-3A (UHF, VHF)

Model	Type	Dimension	Weight
HONBDA-7S-D-RMA	VHF + UHF / PS700 + FirstNet + PS800, Class A, 8 ports	19 in (482.6mm) rack, 1 RU	20lbs. (9kg)
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 in (482.6mm) rack, 1 RU	20lbs. (9kg)
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 in (482.6mm) rack, 1 RU	20lbs. (9kg)

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.
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.
HONBDA-DRMA-L1: 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.

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

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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