

# FLEX 2.0 - Over-the-Air Public Safety Centric Fiber DAS (136 - 512 MHz)

HONBDA Series

## Product Features

- Specifically designed for VHF and UHF, LMR and Public Safety Applications.
- No need of “Front End BDA” or “POI”, reduced infrastructure cost.
- Supports Over-the-Air (OTA) operation – Direct Donor antenna Connection to Master.
- **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 2013 Edition, NFPA 1221 2016 2019 Edition Standard.
- SGS C-US Compliant.
- UL2524 3rd Edition 2024 Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524.



Remote Unit

Master Unit

## Applications

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

| Specification               | Value                                                                                                                                                                                                                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fiber-Optic                 | Single mode                                                                                                                                                                                                                                                                                                   |
| WDM                         | Yes (one fiber to connect Master to Expansion, and one fiber per Remote)                                                                                                                                                                                                                                      |
| Optical Wavelengths         | 1270 / 1330 nm                                                                                                                                                                                                                                                                                                |
| Operational Bands           | 136 - 174 MHz & 450 - 512 MHz                                                                                                                                                                                                                                                                                 |
| Number of Channel Filters   | 64 channels per band + 4 Bandwidth Adjustable per band                                                                                                                                                                                                                                                        |
| Available Channel Filter BW | 100kHz, 75kHz, 62.5kHz, 50kHz, 37.5kHz, 25kHz & 12.5kHz                                                                                                                                                                                                                                                       |
| Group Delay                 | Channel Selective 100kHz, 12.6µS<br>Channel Selective 75kHz, 14.9µS<br>Channel Selective 62.5kHz, 16.8µS<br>Channel Selective 50kHz, 19.6µS<br>Channel Selective 37.5kHz, 24.1µS<br>Channel Selective 25kHz, 33.4µS<br>Channel Selective 12.5kHz, 62.1µS<br>or Band selective: 3.5 to 6.5µS, depending on BWA |
| Supported Fiber Loss        | 20dBo max                                                                                                                                                                                                                                                                                                     |
| Optical Connectors          | LC/UPC                                                                                                                                                                                                                                                                                                        |
| Optical Return Loss         | >45dB                                                                                                                                                                                                                                                                                                         |
| RF Input/Output Impedance   | 50 Ω                                                                                                                                                                                                                                                                                                          |

\* 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 ].

# **FLEX 2.0** - Over-the-Air Public Safety Centric DAS (136 - 512 MHz)

## **HONBDA Series**

|                                |                                           |
|--------------------------------|-------------------------------------------|
| RF Connectors                  | N(f)                                      |
| Overall Gain (Master + Remote) | 85dB regardless fiber length (see Note 1) |
| Noise Figure                   | <9dB                                      |

### **Master Unit Electrical and Mechanical Specifications Value**

|                                 |                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| DL Manual Attenuator            | 30dB in 1dB steps                                                                                                        |
| Maximum UL Output Power         | +24 dBm per band (see Note 1)                                                                                            |
| UL IM and Spurious Generation   | < -13dBm                                                                                                                 |
| UL Manual Attenuator            | 30dB in 1dB steps                                                                                                        |
| Max Operational DL Input Power  | -35dBm                                                                                                                   |
| Number of Optical Ports         | 8 (for Remote Unit and Expansion Unit connection)                                                                        |
| Power Supply                    | 110VAC 60Hz or +24VDC (see ordering information at the end of this document)                                             |
| Power Consumption (Master Unit) | 70W                                                                                                                      |
| Housing                         | NEMA4, UL 50 Certified                                                                                                   |
| Environmental                   | EN 300 019 4.1                                                                                                           |
| Temperature range               | -22° to +131° F • -30° to +55° C                                                                                         |
| Humidity                        | <95% non-condensing                                                                                                      |
| Dimensions                      | Cabinet Type "C": 27.2 x 20 x 9 in (690.88 x 508 x 228.6 mm)<br>Cabinet Type "E": 30 x 24 x 14 in (762 x 610 x 355.6 mm) |
| MTBF                            | 50,000 hours                                                                                                             |

### **Remote Unit Electrical and Mechanical Specifications Value**

|                                 |                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------|
| Composite Output Power, DL      | VHF: 24 dBm UHF: 30 dBm (see Note 1)                                                                          |
| DL IMD and Spurious Generation  | < -13 dBm                                                                                                     |
| Number of Optical Ports         | 1 as standard, 2 optional for redundancy                                                                      |
| UL Maximum Input Power          | 0dBm                                                                                                          |
| UL Noise Reduction              | UL squelch per channel and time-slot, programmable                                                            |
| Manual Attenuator               | 20dB in 1 dB steps                                                                                            |
| Power Supply                    | 110VAC 60Hz & 24VDC (see ordering information at the end of this document)                                    |
| Power Consumption (Remote Unit) | 70W                                                                                                           |
| Housing                         | NEMA4, UL50 Certified                                                                                         |
| Environmental                   | EN 300 019 4.1                                                                                                |
| Temperature Range               | -22° to +131° F • -30° to +55° C                                                                              |
| Humidity                        | < 95% non-condensing                                                                                          |
| Dimension and Weight            | Cabinet Type "C": 27.2 x 20 x 9 in (690.88 x 508 x 228.6 mm)<br>Type "E": 30x 24 x 14 in (762 x 610x 355.6mm) |
| MTBF                            | 50.000 hours                                                                                                  |

| Control and Alarms        | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarms Report             | Alarms of all the Remotes and BBUs of the System available at the Master Unit.<br>At Master Unit via USB: Master Unit, Expansion Unit and Remote Unit Status.<br>At Master Unit via Web browser: Master Unit, Expansion Unit and Remote Unit Status.<br>At Master Unit via SNMP: Master Unit, Expansion Unit and Remote Unit Status.<br>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.<br>At Remote Unit via USB: Remote Unit Status<br>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)<br>Remote: Via SNMP or Web browser                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Normative     | Value                                                    |
|---------------|----------------------------------------------------------|
| Standards     | ITU T G 652<br>EN60825-1                                 |
| FCC           | FCC, CFR 47, Part 15, Subpart B, Class A digital devices |
| FCC ID Master | P3TDH14-4A / P3TDH14-4B                                  |
| FCC ID Remote | P3TDH14-5A / P3TDH14-5B                                  |

**Note 1:** Value valid for non-duplexed units. This value can change depending on the filtering insertion loss of the duplexer.



**HONBDA-R1A-UTNL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 1 optical port, NFPA, class A, AC & DC, No internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-V3L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.VHF 136-174MHz, +24dBm, 64 filters + 4 Adj sub bands, 1 optical port, NFPA, class A, AC & DC, 3.5MHz BW internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VNL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.VHF 136-174MHz, +24dBm, 64 filters + 4 Adj sub bands, 1 optical port, NFPA, class A, AC & DC, No Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-T00L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF DUAL SUB BAND 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 1 optical port, NFPA, class A, AC & DC, Band #1: Narrow Filter, Band #2 Narrow Filter internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-TRWCL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 483.4-484.5/486.4-487.5 & 488.5-489/491.5-492 MHz, +30dBm, 64 filters + 4 Adj sub bands, 1 optical port, NFPA, class A, AC & DC, Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-TWMOL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 489-491/492-494 & 496.3-497/499.3-500 MHz, +30dBm, 64 filters + 4 Adj sub bands, 1 optical port, NFPA, class A, AC & DC, Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-U04L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF DUAL SUB BAND 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 1 optical port, NFPA, class A, AC & DC, Band #1: Narrow Filter, Band #2 Broadband Filter internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-U4L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF DUAL SUB BAND 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 1 optical port, NFPA, class A, AC & DC, Band #1: Broadband Filter internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-UMDAL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 453-454/458-459 & 460-462/465-467 MHz, +30dBm, 64 filters + 4 Adj sub bands, 1 optical port, NFPA, class A, AC & DC, Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VT30L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: Band#1: Narrow Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VT300L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: Band#1: Narrow Filter Bnad#2: Narrow Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VT3RWCL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 470-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: 483.4-484.5/486.4-487.5 & 488.5 ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VTN0L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: Band#1: Narrow Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VTN00L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: Band#1: Narrow Filter Bnad#2: Narrow Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VTNRWCL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 470-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: 483.4-484.5/486.4-487.5 & 488.5-489/49 ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VU304L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: 3.5 Internal Duplexer, UHF: Band#1: Narrow Filter Band#2: Broadband Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VU34L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: Band#1: Broadband Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VU3MDAL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-470MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: 453-454/458-459 & 460-462/465-4 ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VUT3NL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: No Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VUN04L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: Band#1: Narrow Filter Band#2: Broadband Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VUN4L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: Band#1: Broadband Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VUNMDAL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-470MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: 453-454/458-459 & 460-462/465-467MHz i ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VUTNNL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: No Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-MA-VTCY:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER VHF. VHF 136-174MHz, +24dBm, 64filters + 4 Adj sub band, 8 optical port, NFPA, AC & DC, VHF: 154.7250/158.8950 & 155.8950/153.8150 Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-MA-VUTCY2L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-470MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 optical

port, NFPA, AC & DC, VHF: 154.7250/158.8950 & 155.8950/153.8150 Internal Duplexer, UHF: Broadband Filter ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VU304L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: 3.5 Internal Duplexer, UHF: Band#1: Narrow Filter Band#2: Broadband Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VUTCY2L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-470MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: 154.7250/158.8950 & 155.8950/153.8150 Internal Duplexer, UHF: Narrow Filter ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VTCYL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE. VHF 136-174MHz, +24dBm, 64 filters + 4 Adj sub band per Band, 1 optical port, NFPA, AC & DC, VHF: 154.7250/158.8950 & 155.8950/153.8150 Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VU32G:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-470MHz. VHF: +37dBm, UHF: +37dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC, VHF: 3.5MHz BW Internal Duplexer, UHF: 2MHz BW Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1D-VU34G:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-470MHz. VHF: +37dBm, UHF: +37dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, DC, VHF: 3.5MHz BW Internal Duplexer, UHF: 4MHz BW Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-TOL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, Band#1: Narrow Filter internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-UTNL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, No internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-V3L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.VHF 136-174MHz, +24dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, 3.5MHz BW internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VNL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.VHF 136-174MHz, +24dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, No Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-T00L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF DUAL SUB BAND 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, Band #1: Narrow Filter, Band #2 Narrow Filter internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-TRWCL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 483.4-484.5/486.4-487.5 & 488.5-489/491.5-492 MHz, +30dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-TWMOL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 489-491/492-494 & 496.3-497/499.3-500 MHz, +30dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-U04L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF DUAL SUB BAND 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, Band #1: Narrow Fil-

ter, Band #2 Broadband Filter internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-U4L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF DUAL SUB BAND 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, Band #1: Broadband Filter internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-UMDAL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 453-454/458-459 & 460-462/465-467 MHz, +30dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-V2S:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.VHF 136-174MHz, +33dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC, 2MHz BW internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VT30L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: Band#1: Narrow Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VT300L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: Band#1: Narrow Filter Bnad#2: Narrow Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VT3RWCL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 470-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: 483.4-484.5/486.4-487.5 & 488.5 ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VTNOL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: Band#1: Narrow Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VTN00L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: Band#1: Narrow Filter Bnad#2: Narrow Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VTNRWCL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 470-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: 483.4-484.5/486.4-487.5 & 488.5-489/49 ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VU34L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: Band#1: Broadband Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VU3MDAL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-470MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: 453-454/458-459 & 460-462/465-4 ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VUN04L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical

# Over-the-Air Public Safety Centric DAS (136 - 512 MHz)

## HONBDA Series

port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: Band#1: Narrow Filter Band#2: Broadband Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VUN4L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: Band#1: Broadband Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VUNMDAL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-470MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: 453-454/458-459 & 460-462/465-467MHz i ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VUT3NL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: No Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-VUTNNL:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 2 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: No Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-MA-UTMDA0L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER.UHF 453-454/458-459 & 460-462/465-467 MHz & Narrow Filter in 450-512 MHz , +24dBm, 64 filters + 4 Adj sub bands, 8 optical ports, NFPA, class A, AC & DC, Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-UTMDA0L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 453-454/458-459 & 460-462/465-467 MHz & Narrow Filter in 450-512 MHz , +30dBm, 64 filters + 4 Adj sub bands, 1 optical ports, NFPA, class A, AC & DC, Internal Duplexer ,UL2524 2nd Edition

**HONBDA-R2A-UMDA0L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF 453-454/458-459 & 460-462/465-467 MHz & Narrow Filter in 450-512 MHz , +30dBm, 64 filters + 4 Adj sub bands, 2 optical ports, NFPA, class A, AC & DC, Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-MA-T000L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER.UHF 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 8 optical ports, NFPA, class A, AC & DC, Band#1: Narrow Filter Band#2: Narrow Filter Band#3: Narrow Filter, internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-T000L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF TRIPLE SUB BAND 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 1 optical port, NFPA, class A, AC & DC, Band #1: Narrow Filter, Band #2 Narrow Filter, Band#3: Narrow Filter internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R2A-T000L:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE.UHF TRIPLE SUB BAND 450-512 MHz, +30dBm, 64 filters + 4 Adj sub bands, 2 optical port, NFPA, class A, AC & DC, Band #1: Narrow Filter, Band #2 Narrow Filter, Band#3: Narrow Filter internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1A-VUTNNG:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +37dBm, UHF: +37dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, AC, VHF: No Internal Duplexer, UHF: No Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

**HONBDA-R1D-VUTNNG:** Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS REMOTE DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +37dBm, UHF: +37dBm, 32filters + 2 Adj sub band per Band, 1 optical port, NFPA, DC, VHF: No Internal Duplexer, UHF: No Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL 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 factory for latest listing status.

- FCC Compliant
- IC Certified
- IFC 2015, 2018, 2021 Edition Standard
- ISO 9001 PECB Certified
- NFPA 72 2019 Edition, NFPA 1225 2022 Edition Standard
- NFPA 1221, 2016, 2019 Edition Standard
- ROHS compliant
- UL2524 3rd Edition 2024 Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524

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