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.



Remote Unit



Master Unit

- 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.

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 Channel Selective 75kHz, 14.9µS Channel Selective 62.5kHz, 16.8µS Channel Selective 50kHz, 19.6µS Channel Selective 37.5kHz, 24.1µS Channel Selective 25kHz, 33.4µS Channel Selective 12.5kHz, 62.1µS 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].**

fiplex by Honeywell

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	-22º to +131º F • -30º to +55º C
Humidity	<95% non-condensing
Dimensions	Cabinet Type “C”: 27.2 x 20 x 9 in (690.88 x 508 x 228.6 mm) 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	-22º to +131º F • -30º to +55º 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) 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. 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 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.

Ordering Information

HONBDA-MA-T0L: 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 internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-UTNL: 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, No internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-V3L: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER.VHF 136-174MHz, +24dBm, 64 filters + 4 Adj sub bands, 8 optical ports, NFPA, class A, AC & DC, 3.5MHz BW internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-VNL: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER.VHF 136-174MHz, +24dBm, 64 filters + 4 Adj sub bands, 8 optical ports, NFPA, class A, AC & DC, No Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-T00L: 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, internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-TRWCL: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER.UHF 483.4-484.5/486.4-487.5 & 488.5-489/491.5-492 MHz, +30dBm, 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-MA-TWMOL: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER.UHF 489-491/492-494 & 496.3-497/499.3-500 MHz, +30dBm, 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-MA-U04L: 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: Broadband Filter, internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-U4L: 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: Broadband Filter, internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-UMDAL: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER.UHF 453-454/458-459 & 460-462/465-467 MHz, +30dBm, 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-MA-VT30L: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: Narrow Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-VT300L: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: Band#1: Narrow Filter Band#2: Narrow Filter, internal duplexer, in ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-VT3RWCL: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 470-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 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-MA-VTN0L: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: Narrow Filter Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-VTN00L: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: Band#1: Narrow Filter Band#2: Narrow Filter, internal duplexer, in ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-VTNRWCL: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 470-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 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-MA-VU304L: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 optical port, NFPA, AC & DC, VHF: 3.5MHz BW Internal Duplexer, UHF: Band #1: Narrow Filter Band#2: Broadband Filter, Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-VU34L: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 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-MA-VU3MDAL: 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: 3.5MHz BW Internal Duplexer, UHF: 453-454/458-459 & 460-462/465-4 ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-VUT3NL: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 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-MA-VUN04L: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 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-MA-VUN4L: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 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-MA-VUNMDAL: 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: No Internal Duplexer, UHF: 453-454/458-459 & 460-462/465-467MHz i ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-MA-VUTNNL: Fiber DAS. OTA PUBLIC SAFETY CENTRIC DAS MASTER DUAL BAND. VHF 136-174MHz & UHF 450-512MHz. VHF: +24dBm, UHF: +30dBm, 32filters + 2 Adj sub band per Band, 8 optical port, NFPA, AC & DC, VHF: No Internal Duplexer, UHF: No Internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

HONBDA-R1A-T0L: 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, Band#1: Narrow Filter internal Duplexer ,UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Fiber DAS

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-TWM0L: 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-T0L: 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-TWM0L: 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 Filter, 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-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, 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

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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