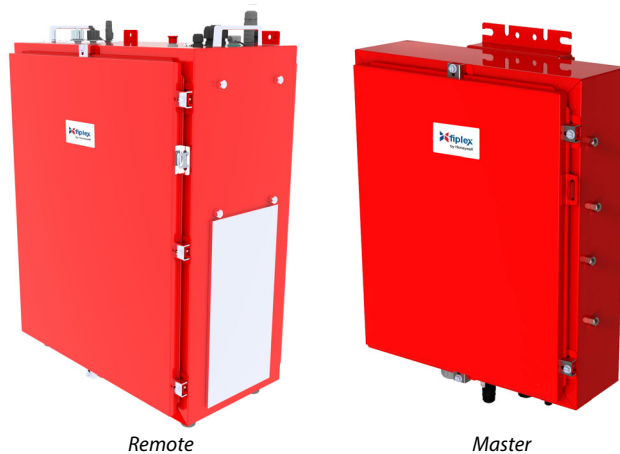


# Over-the-Air Public Safety Centric DAS (136 - 512 MHz)

**HONBDA Series**

## Product Features

- Specifically designed for LMR and Public Safety Applications
- Redundancy features
- Field expandable
- No need of “Front End BDA” or “POI”, reduced infrastructure cost
- Channelized
- Programmable uplink squelch (per channel and time slot) for reduced UL noise contribution
- Software programmable channel selective or band selective operation, suitable for highly congested RF environments
- Centralized operation, single point of access
- AGC per channel and time slot
- Supports Over The Air (OTA) operation
- NFPA Compliant
- Preserves the far end communications and protects BTS Rx sensitivity
- Works with Public Safety Centric DAS Remotes (DH Series)
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524
- IFC 2015, 2018, 2021 Edition
- NFPA 72, 2013 Edition, NFPA 1221, 2016, 2019 Edition
- Buy American Compliant: meets the definition of Domestic Construction Material under the Buy American Act



## Applications

- For P25 Ph1, P25 Ph2, DMR, TETRA, TETRAPOL, C2000, NXDN and Conventional Systems
- Indoor: tunnels, buildings, subways, airports, among others
- Outdoor: stadiums, canyons, dense urban areas, remote rural towns

## Specification

### Value

Fiber-Optic	Single mode
WDM	Yes
Optical Wavelengths	1310 / 1550 nM
Operational Bands	136 - 174 MHz & 450 - 512 MHz
Number of Channel Filters	64 channels + 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
RF Connectors	N(f)
Overall Gain (Master + Remote)*	85dB regardless fiber length
Noise Figure	<9dB

Master Unit Electrical and Mechanical Specifications	Value
DL Manual Attenuator	20dB in 1dB steps
Maximum UL Output Power *	+24 dBm per band
UL IM and Spurious Generation	< -13dBm
UL Manual Attenuator	20dB in 1dB steps
Max Operational DL Input Power	-35dBm
Number of Optical Ports	8
Power Supply	110VAC 60Hz or +24VDC (see Table)
Power Consumption (Master Unit)	70w
Housing	NEMA4
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) 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
DL IMD and Spurious Generation	< -13 dBm
Number of Optical Ports	1 for MU redundancy FO ports available as optional
UL Maximum Input Power	0dBm
UL Noise Reduction	UL squelch per channel, programmable
Manual Attenuator	20dB in 1 dB steps +/- 0.5 dB
Power Supply	110VAC 60Hz & +24 (see Table)
Power Consumption (Remote Unit)	70w
Housing	NEMA4
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) Cabinet Type "E": 30x 24 x 14 in (762 x 610x 355.6mm)
MTBF	> 50.000 hours

#### Control and Alarms Value

Alarms Report	Via Master Unit Local: USB (POWER STATUS, MU STATUS, RM STATUS) Remote: SNMP (Ethernet)
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
FCC ID Remote	P3TDH14-5A

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

The table below lists the labels assigned the Type, Power Supply, Frequency Band, VHF Filter BW, UHF Filter and Downlink RF Power. Each column includes the information assigned to each suffix label in the model name.

For example, in the model name, **DH14-R1A-VU22L**, the suffix label **R1A-VU22L** indicates the following.

- R1 = Type: Remote 1 FO
- A = Power Supply: AC
- VU = Frequency Band: is 136-174 + 450-470
- 2 = VHF Filter BW is 2.0 MHz
- 2 = UHF Filter is 2.0 MHz
- L = Downlink RF Power L: VHF =+24dBm; UHF =+30 dBm

DH14	-[TYPE]	[Power Supply]	[Frequency Band]	[VHF Filter BW] If apply	[UHF Filter] If apply	[Downlink RF Power]
	<b>M:</b> Master PSC	<b>A:</b> AC	<b>V:</b> 136-174	<b>N:</b> NonDuplexed	<b>N:</b> Non Duplexed	<b>L:</b> VHF=+24dBm; UHF=+30dBm
	<b>R1:</b> Remote 1 FO	<b>D:</b> DC	<b>U:</b> 450-470	<b>2:</b> 2.0 MHz	<b>0:</b> 0.7MHz	<b>H:</b> VHF=+30dBm; UHF=+37dBm
	<b>R2:</b> Remote 2 FO		<b>T:</b> 470-512	<b>3:</b> 3.5 MHz B	<b>1:</b> 1.5MHz	
			<b>UT:</b> 450-512		<b>2:</b> 2.0MHz	
			<b>VU:</b> 136-174+450-470		<b>4:</b> 4.0MHz	
			<b>VT:</b> 136-174+470-512		<b>5:</b> 5.0MHz	
			<b>VUT:</b> 136-174+450-512		<b>00:</b> 0.7 + 0.7 MHz	
					<b>01:</b> 0.7 + 1.5 MHz	
					<b>02:</b> 0.7 + 2.0 MHz	
					<b>04:</b> 0.7 + 4.0 MHz	
					<b>11:</b> 1.5 + 1.5 MHz	
					<b>12:</b> 1.5 + 2.0 MHz	
					<b>14:</b> 1.5 + 4.0 MHz	
					<b>22:</b> 2.0 + 2.0 MHz	
					<b>24:</b> 2.0 + 4.0 MHz	
					<b>000:</b> 0.7 + 0.7 + 0.7 MHz	
					<b>001:</b> 0.7 + 0.7 + 1.5 MHz	
					<b>011:</b> 0.7 + 1.5 + 1.5 MHz	
					<b>012:</b> 0.7 + 1.5 + 2.0 MHz	
					<b>111:</b> 1.5 + 1.5 + 1.5 MHz	
					<b>002:</b> 0.7 + 0.7 + 2.0 MHz	
					<b>112:</b> 1.5 + 1.5 + 2.0 MHz	
					<b>004:</b> 0.7 + 0.7 + 4.0 MHz	
					<b>MDA:</b> Miami Dade	
					<b>RWC:</b> Redwood City	
					<b>WMO:</b> WMATA OTA	

**Note:** Refer to the Ordering Information Section for the model part numbers.

Xefi # # NOY # ship eq i # i w g m t x s r w

WARNING: This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENCE 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

<b>DH14-MA-TOL:</b> UHF T PSC MASTER,0.7MHz,ACDC	<b>DH14-MA-VU3MDAL:</b> VHF&UHF U PSC MASTER, 3&MDA, ACDC
<b>DH14-MA-T1L:</b> UHF T PSC MASTER,1.5MHz,ACDC	<b>DH14-MA-VUT3NL:</b> VHF&UHF PSC MASTER, 3&ND, ACDC
<b>DH14-MA-U2L:</b> UHF U PSC MASTER,2MHz,ACDC	<b>DH14-MA-VUN04L:</b> VHF&UHF U PSC MASTER, ND&0.7-4MHz, ACDC
<b>DH14-MA-UTNL:</b> UHF PSC MASTER,ND,ACDC	<b>DH14-MA-VUN2L:</b> VHF&UHF U PSC MASTER,ND&2MHz,ACDC
<b>DH14-MA-V2L:</b> VHF PSC MASTER,2MHz,ACDC	<b>DH14-MA-VUN22L:</b> VHF&UHF U PSC MASTER,ND&2-2MHz,ACDC
<b>DH14-MA-V3L:</b> VHF PSC MASTER,3MHz,ACDC	<b>DH14-MA-VUN4L:</b> VHF&UHF U PSC MASTER,ND&4MHz,ACDC
<b>DH14-MA-VNL:</b> VHF PSC MASTER,ND,ACDC	<b>DH14-MA-VUN5L:</b> VHF&UHF U PSC MASTER,ND&5MHz,ACDC
<b>DH14-MA-T00L:</b> UHF T PSC MASTER,0.7-0.7MHz,ACDC	<b>DH14-MA-VUNMDAL:</b> VHF&UHF U PSC MASTER,ND&MDA,ACDC
<b>DH14-MA-T2L:</b> UHF T PSC MASTER,2MHz,ACDC	<b>DH14-MA-VUTNNL:</b> VHF&UHF PSC MASTER,ND&ND,ACDC
<b>DH14-MA-TRWCL:</b> UHF T PSC MASTER,RWC,ACDC	<b>DH14-R1A-T0L:</b> UHF T PSC REM 1FO,0.7MHz,ACDC
<b>DH14-MA-TWMOL:</b> UHF T PSC MASTER,WMO,ACDC	<b>DH14-R1A-T1L:</b> UHF T PSC REM 1FO,1.5MHz,ACDC
<b>DH14-MA-U04L:</b> UHF U PSC MASTER,0.7-4MHz,ACDC	<b>DH14-R1A-U2L:</b> UHF U PSC REM 1FO,2MHz,ACDC
<b>DH14-MA-U22L:</b> UHF U PSC MASTER,2-2MHz,ACDC	<b>DH14-R1A-UTNL:</b> UHF PSC REM 1FO,ND,ACDC
<b>DH14-MA-U4L:</b> UHF U PSC MASTER,4MHz,ACDC	<b>DH14-R1A-V2L:</b> VHF PSC REM 1FO,2MHz,ACDC
<b>DH14-MA-UMDAL:</b> UHF U PSC MASTER,MDAMHz,ACDC	<b>DH14-R1A-V3L:</b> VHF PSC REM 1FO,3MHz,ACDC
<b>DH14-MA-UT02L:</b> UHF PSC MASTER,0.7-2MHz,ACDC	<b>DH14-R1A-NVL:</b> VHF PSC REM 1FO,ND,ACDC
<b>DH14-MA-UT002L:</b> UHF PSC MASTER,0.7-0.7-2MHz,ACDC	<b>DH14-R1A-T00L:</b> UHF T PSC REM 1FO,0.7-0.7MHz,ACDC
<b>DH14-MA-UT12L:</b> UHF PSC MASTER,1.5-2MHz,ACDC	<b>DH14-R1A-T2L:</b> UHF T PSC REM 1FO,2MHz,ACDC
<b>DH14-MA-UT22L:</b> UHF PSC MASTER,2-2MHz,ACDC	<b>DH14-R1A-TRWCL:</b> UHF T PSC REM 1FO,RWC,ACDC
<b>DH14-MA-VT20L:</b> VHF&UHF T PSC MASTER,2&0.7MHz,ACDC	<b>DH14-R1A-TWMOL:</b> UHF T PSC REM 1FO,WMO,ACDC
<b>DH14-MA-VT200L:</b> VHF&UHF T PSC MASTER,2&0.7-0.7MHz,ACDC	<b>DH14-R1A-U04L:</b> UHF U PSC REM 1FO,0.7-4MHz,ACDC
<b>DH14-MA-VT21L:</b> VHF&UHF T PSC MASTER,2&1.5MHz,ACDC	<b>DH14-R1A-U22L:</b> UHF U PSC REM 1FO,2-2MHz,ACDC
<b>DH14-MA-VT211L:</b> VHF&UHF T PSC MASTER,2&1.5-1.5MHz,ACDC	<b>DH14-R1A-U4L:</b> UHF U PSC REM 1FO,4MHz,ACDC
<b>DH14-MA-VT22L:</b> VHF&UHF T PSC MASTER,2&2MHz,ACDC	<b>DH14-R1A-UMDAL:</b> UHF U PSC REM 1FO,MDAMHz,ACDC
<b>DH14-MA-VT2RWCL:</b> VHF&UHF T PSC MASTER,2&RWCmHz,ACDC	<b>DH14-R1A-UT02L:</b> UHF PSC REM 1FO,0.7-2MHz,ACDC
<b>DH14-MA-VT30L:</b> VHF&UHF T PSC MASTER,3&0.7MHz,ACDC	<b>DH14-R1A-UT002L:</b> UHF PSC REM 1FO,0.7-0.7-2MHz,ACDC
<b>DH14-MA-VT300L:</b> VHF&UHF T PSC MASTER,3&0.7-0.7MHz,ACDC	<b>DH14-R1A-UT12L:</b> UHF PSC REM 1FO,1.5-2MHz,ACDC
<b>DH14-MA-VT31L:</b> VHF&UHF T PSC MASTER,3&1.5MHz,ACDC	<b>DH14-R1A-UT22L:</b> UHF PSC REM 1FO,2-2MHz,ACDC
<b>DH14-MA-VT311L:</b> VHF&UHF T PSC MASTER,3&1.5-1.5MHz,ACDC	<b>DH14-R1A-VT20L:</b> VHF&UHF T PSC REM 1FO,2&0.7MHz,ACDC
<b>DH14-MA-VT32L:</b> VHF&UHF T PSC MASTER,3&2MHz,ACDC	<b>DH14-R1A-VT200L:</b> VHF&UHF T PSC REM 1FO,2&0.7-0.7MHz,ACDC
<b>DH14-MA-VT3RWCL:</b> VHF&UHF T PSC MASTER,3&RWCmHz,ACDC	<b>DH14-R1A-VT21L:</b> VHF&UHF T PSC REM 1FO,2&1.5MHz,ACDC
<b>DH14-MA-VTN0L:</b> VHF&UHF T PSC MASTER,ND&0.7MHz,ACDC	<b>DH14-R1A-VT211L:</b> VHF&UHF T PSC REM 1FO, 2&1.5-1.5MHz,ACDC
<b>DH14-MA-VTN00L:</b> VHF&UHF T PSC MASTER, ND&0.7-0.7MHz, ACDC	<b>DH14-R1A-VT22L:</b> VHF&UHF T PSC REM 1FO,2&2MHz,ACDC
<b>DH14-MA-VTN1L:</b> VHF&UHF T PSC MASTER,ND&1.5MHz,ACDC	<b>DH14-R1A-VT2RWCL:</b> VHF&UHF T PSC REM 1FO, 2&RWCmHz,ACDC
<b>DH14-MA-VTN11L:</b> VHF&UHF T PSC MASTER, ND&1.5-1.5MHz, ACDC	<b>DH14-R1A-VT30L:</b> VHF&UHF T PSC REM 1FO,3&0.7MHz,ACDC
<b>DH14-MA-VTN2L:</b> VHF&UHF T PSC MASTER,ND&2MHz,ACDC	<b>DH14-R1A-VT300L:</b> VHF&UHF T PSC REM 1FO, 3&0.7-0.7MHz,ACDC
<b>DH14-MA-VTNRWCL:</b> VHF&UHF T PSC MASTER, ND&RWCmHz, ACDC	<b>DH14-R1A-VT31L:</b> VHF&UHF T PSC REM 1FO,3&1.5MHz,ACDC
<b>DH14-MA-VU204L:</b> VHF&UHF U PSC MASTER,2&0.7-4MHz,ACDC	<b>DH14-R1A-VT311L:</b> VHF&UHF T PSC REM 1FO, 3&1.5-1.5MHz,ACDC
<b>DH14-MA-VU22L:</b> VHF&UHF U PSC MASTER, 2&2MHz, ACDC	<b>DH14-R1A-VT32L:</b> VHF&UHF T PSC REM 1FO,3&2MHz,ACDC
<b>DH14-MA-VU222L:</b> VHF&UHF U PSC MASTER, 2&2-2MHz, ACDC	<b>DH14-R1A-VT3RWCL:</b> VHF&UHF T PSC REM 1FO, 3&RWCmHz,ACDC
<b>DH14-MA-VU24L:</b> VHF&UHF U PSC MASTER, 2&4MHz, ACDC	<b>DH14-R1A-VTN0L:</b> VHF&UHF T PSC REM 1FO,ND&0.7MHz,ACDC
<b>DH14-MA-VU25L:</b> VHF&UHF U PSC MASTER, 2&5MHz, ACDC	<b>DH14-R1A-VTN00L:</b> VHF&UHF T PSC REM 1FO, ND&0.7-0.7MHz,ACDC
<b>DH14-MA-VU2MDAL:</b> VHF&UHF U PSC MASTER, 2&MDA, ACDC	<b>DH14-R1A-VTN1L:</b> VHF&UHF T PSC REM 1FO,ND&1.5MHz,ACDC
<b>DH14-MA-VUT2NL:</b> VHF&UHF PSC MASTER,2&ND,ACDC	<b>DH14-R1A-VTN11L:</b> VHF&UHF T PSC REM 1FO, ND&1.5-1.5MHz, ACDC
<b>DH14-MA-VU304L:</b> VHF&UHF U PSC MASTER, 3&0.7-4MHz, ACDC	<b>DH14-R1A-VTN2L:</b> VHF&UHF T PSC REM 1FO,ND&2MHz,ACDC
<b>DH14-MA-VU32L:</b> VHF&UHF U PSC MASTER,3&2MHz,ACDC	
<b>DH14-MA-VU322L:</b> VHF&UHF U PSC MASTER, 3&2-2MHz, ACDC	
<b>DH14-MA-VU34L:</b> VHF&UHF U PSC MASTER, 3&4MHz, ACDC	
<b>DH14-MA-VU35L:</b> VHF&UHF U PSC MASTER,3&5MHz,ACDC	

**DH14-R1A-VTNRWCL:** VHF&UHF T PSC REM 1FO,  
ND&RWCMHz,ACDC  
**DH14-R1A-VU204L:** VHF&UHF U PSC REM 1FO,2&0.7-4MHz,ACDC  
**DH14-R1A-VU22L:** VHF&UHF U PSC REM 1FO,2&2MHz,ACDC  
**DH14-R1A-VU222L:** VHF&UHF U PSC REM 1FO,2&2-2MHz,ACDC  
**DH14-R1A-VU24L:** VHF&UHF U PSC REM 1FO,2&4MHz,ACDC  
**DH14-R1A-VU25L:** VHF&UHF U PSC REM 1FO,2&5MHz,ACDC  
**DH14-R1A-VU2MDAL:** VHF&UHF U PSC REM 1FO,2&MDA,ACDC  
**DH14-R1A-VUT2NL:** VHF&UHF PSC REM 1FO,2&ND,ACDC  
**DH14-R1A-VUT2N2L:** VHF&UHF PSC REM 1FO,2&ND,ACDC  
**DH14-R1A-VU304L:** VHF&UHF U PSC REM 1FO,3&0.7-4MHz,ACDC  
**DH14-R1A-VU32L:** VHF&UHF U PSC REM 1FO,3&2MHz,ACDC  
**DH14-R1A-VU322L:** VHF&UHF U PSC REM 1FO,3&2-2MHz,ACDC  
**DH14-R1A-VU34L:** VHF&UHF U PSC REM 1FO,3&4MHz,ACDC  
**DH14-R1A-VU35L:** VHF&UHF U PSC REM 1FO,3&5MHz,ACDC  
**DH14-R1A-VU3MDAL:** VHF&UHF U PSC REM 1FO,3&MDA,ACDC  
**DH14-R1A-VUT3NL:** VHF&UHF PSC REM 1FO,3&ND,ACDC  
**DH14-R1A-VUN04L:** VHF&UHF U PSC REM 1FO,  
ND&0.7-4MHz,ACDC  
**DH14-R1A-VUN2L:** VHF&UHF U PSC REM 1FO,ND&2MHz,ACDC  
**DH14-R1A-VUN22L:** VHF&UHF U PSC REM 1FO,ND&2-2MHz,ACDC  
**DH14-R1A-VUN4L:** VHF&UHF U PSC REM 1FO,ND&4MHz,ACDC  
**DH14-R1A-VUN5L:** VHF&UHF U PSC REM 1FO,ND&5MHz,ACDC  
**DH14-R1A-VUNMDAL:** VHF&UHF U PSC REM 1FO,ND&MDA,ACDC  
**DH14-R1A-VUTN2L:** VHF&UHF PSC REM 1FO,ND&ND,ACDC  
**DH14-MA-VTCY:** UHF T PSC MASTER,TCY,ACDC  
**DH14-MA-T11L:** UHF T PSC MASTER,1.5-1.5MHz,ACDC  
**DH14-MA-T02L:** UHF T PSC MASTER,0.7-2MHz,ACDC  
**DH14-MA-T12L:** UHF T PSC MASTER,1.5-2MHz,ACDC  
**DH14-MA-TESSL:** UHF T PSC MASTER,ESG,ACDC  
**DH14-MA-U24L:** UHF U PSC MASTER,2-4MHz,ACDC  
**DH14-MA-UT04L:** UHF PSC MASTER,0.7-4MHz,ACDC  
**DH14-MA-UT012L:** UHF PSC MASTER,0.7-1.5-2MHz,ACDC  
**DH14-MA-VUTCY2L:** VHF&UHF PSC MASTER,TCY&2MHz,ACDC  
**DH14-MA-T01L:** UHF T PSC MASTER,0.7-1.5MHz,ACDC  
**DH14-R1A-T11L:** UHF T PSC REM 1FO,1.5-1.5MHz,ACDC  
**DH14-R1A-T02L:** UHF T PSC REM 1FO,0.7-2MHz,ACDC  
**DH14-R1A-T12L:** UHF T PSC REM 1FO,1.5-2MHz,ACDC  
**DH14-R1A-TESSL:** UHF T PSC REM 1FO,ESG,ACDC  
**DH14-R1A-U24L:** UHF U PSC REM 1FO,2-4MHz,ACDC  
**DH14-R1A-UT04L:** UHF PSC REM 1FO,0.7-4MHz,ACDC  
**DH14-R1A-UT012L:** UHF PSC REM 1FO,0.7-1.5-2MHz,ACDC  
**DH14-R2A-VU304L:** VHF&UHF U PSC REM 2FO,3&0.7-4MHz,ACDC  
**DH14-R2A-VU322L:** VHF&UHF U PSC REM 2FO,3&2-2MHz,ACDC  
**DH14-R1A-VUTCY2L:** VHF&UHF U PSC REM 1FO,TCY&2MHz,ACDC  
**DH14-R1A-T01L:** UHF T PSC REM 1FO,0.7-1.5MHz,ACDC  
**DH14-R1A-VTCYL:** VHF PSC REM 1FO,TCY,ACDC  
**DH14-R2A-T0L:** UHF T PSC REM 2FO,0.7MHz,ACDC  
**DH14-R2A-T1L:** UHF T PSC REM 2FO,1.5MHz,ACDC  
**DH14-R2A-U2L:** UHF U PSC REM 2FO,2MHz,ACDC  
**DH14-R2A-UTNL:** UHF PSC REM 2FO,ND,ACDC

**DH14-R2A-V2L:** VHF PSC REM 2FO,2MHz,ACDC  
**DH14-R2A-V3L:** VHF PSC REM 2FO,3MHz,ACDC  
**DH14-R2A-VNL:** VHF PSC REM 2FO,ND,ACDC  
**DH14-R2A-T00L:** UHF T PSC REM 2FO,0.7-0.7MHz,ACDC  
**DH14-R2A-T01L:** UHF T PSC REM 2FO,0.7-1.5MHz,ACDC  
**DH14-R2A-T11L:** UHF T PSC REM 2FO,1.5-1.5MHz,ACDC  
**DH14-R2A-T2L:** UHF T PSC REM 2FO,2MHz,ACDC  
**DH14-R2A-T02L:** UHF T PSC REM 2FO,0.7-2MHz,ACDC  
**DH14-R2A-T12L:** UHF T PSC REM 2FO,1.5-2MHz,ACDC  
**DH14-R2A-TESSL:** UHF T PSC REM 2FO,ESG,ACDC  
**DH14-R2A-TRWCL:** UHF T PSC REM 2FO,RWC,ACDC  
**DH14-R2A-TWMOL:** UHF T PSC REM 2FO,WMO,ACDC  
**DH14-R2A-U04L:** UHF U PSC REM 2FO,0.7-4MHz,ACDC  
**DH14-R2A-U22L:** UHF U PSC REM 2FO,2-2MHz,ACDC  
**DH14-R2A-U4L:** UHF U PSC REM 2FO,4MHz,ACDC  
**DH14-R2A-UMDAL:** UHF U PSC REM 2FO,MDA,ACDC  
**DH14-R2A-UT02L:** UHF PSC REM 2FO,0.7-2MHz,ACDC  
**DH14-R2A-UT002L:** UHF PSC REM 2FO,0.7-0.7-2MHz,ACDC  
**DH14-R2A-UT012L:** UHF PSC REM 2FO,0.7-1.5-2MHz,ACDC  
**DH14-R2A-UT12L:** UHF PSC REM 2FO,1.5-2MHz,ACDC  
**DH14-R2A-UT22L:** UHF PSC REM 2FO,2-2MHz,ACDC  
**DH14-R2A-VT20L:** VHF&UHF T PSC REM 2FO,2&0.7MHz,ACDC  
**DH14-R2A-VT200L:** VHF&UHF T PSC REM 2FO, 2&0.7-0.7MHz,  
ACDC  
**DH14-R2A-VT21L:** VHF&UHF T PSC REM 2FO,2&1.5MHz,ACDC  
**DH14-R2A-VT211L:** VHF&UHF T PSC REM 2FO, 2&1.5-1.5MHz,  
ACDC  
**DH14-R2A-VT22L:** VHF&UHF T PSC REM 2FO,2&2MHz,ACDC  
**DH14-R2A-VT2RWCL:** VHF&UHF T PSC REM 2FO,2&RWC,ACDC  
**DH14-R2A-VT30L:** VHF&UHF T PSC REM 2FO,3&0.7MHz,ACDC  
**DH14-R2A-VT300L:** VHF&UHF T PSC REM 2FO, 3&0.7-0.7MHz, ACDC  
**DH14-R2A-VT31L:** VHF&UHF T PSC REM 2FO,3&1.5MHz,ACDC  
**DH14-R2A-VT311L:** VHF&UHF T PSC REM 2FO, 3&1.5-1.5MHz, ACDC  
**DH14-R2A-VT32L:** VHF&UHF T PSC REM 2FO,3&2MHz,ACDC  
**DH14-R2A-VT3RWCL:** VHF&UHF T PSC REM 2FO,3&RWC,ACDC  
**DH14-R2A-VTN0L:** VHF&UHF T PSC REM 2FO,ND&0.7MHz,ACDC  
**DH14-R2A-VTN00L:** VHF&UHF T PSC REM 2FO, ND&0.7-0.7MHz, ACDC  
**DH14-R2A-VTN1L:** VHF&UHF T PSC REM 2FO,ND&1.5MHz,ACDC  
**DH14-R2A-VTN11L:**VHF&UHF T PSC REM 2FO, ND&1.5-1.5MHz, ACDC  
**DH14-R2A-VTN2L:** VHF&UHF T PSC REM 2FO,ND&2MHz,ACDC  
**DH14-R2A-VTNRWCL:** VHF&UHF T PSC REM 2FO,ND&RWC,ACDC  
**DH14-R2A-VU204L:** VHF&UHF U PSC REM 2FO,2&0.7-4MHz,ACDC  
**DH14-R2A-VU22L:** VHF&UHF U PSC REM 2FO,2&2MHz,ACDC  
**DH14-R2A-VU222L:** VHF&UHF U PSC REM 2FO,2&2-2MHz,ACDC  
**DH14-R2A-VU24L:** VHF&UHF U PSC REM 2FO,2&4MHz,ACDC  
**DH14-R2A-VU25L:** VHF&UHF U PSC REM 2FO,2&5MHz,ACDC  
**DH14-R2A-VU2MDAL:** VHF&UHF U PSC REM 2FO,2&MDA,ACDC  
**DH14-R2A-VU32L:** VHF&UHF U PSC REM 2FO,3&2MHz,ACDC  
**DH14-R2A-VU34L:** VHF&UHF U PSC REM 2FO,3&4MHz,ACDC  
**DH14-R2A-VU35L:** VHF&UHF U PSC REM 2FO,3&5MHz,ACDC  
**DH14-R2A-VU3MDAL:** VHF&UHF U PSC REM 2FO,3&MDA,ACDC

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

## HONBDA Series

### Ordering Information

**DH14-R2A-VUN04L:** VHF&UHF U PSC REM 2FO, ND&0.7-4MHz, ACDC

**DH14-R2A-VUN2L:** VHF&UHF U PSC REM 2FO,ND&2MHz,ACDC

**DH14-R2A-VUN22L:** VHF&UHF U PSC REM 2FO,ND&2-2MHz,ACDC

**DH14-R2A-VUN4L:** VHF&UHF U PSC REM 2FO,ND&4MHz,ACDC

**DH14-R2A-VUN5L:** VHF&UHF U PSC REM 2FO,ND&5MHz,ACDC

**DH14-R2A-VUNMDAL:** VHF&UHF U PSC REM 2FO,ND&MDA,ACDC

**DH14-R2A-VUT2NL:** VHF&UHF PSC REM 2FO,2&ND,ACDC

**DH14-R2A-VUT3NL:** VHF&UHF PSC REM 2FO,3&ND,ACDC

**DH14-R2A-VUTNNL:** VHF&UHF PSC REM 2FO,ND&ND,ACDC

### 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.

- Buy American Compliant: meets the definition of Domestic Construction Material under the Buy American Act
- FCC Compliant
- IFC 2015, 2018, 2021 Edition Standard
- ISO 9001 PECB Certified
- Made in America Compliant
- NFPA 72, 2013 Edition Standard
- NFPA 1221, 2016, 2019 Edition Standard
- ROHS compliany
- UL2524 2nd 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.

Fiplex is a trademark of Fiplex Communications, Inc.  
©2023 by Honeywell Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.

Country of Origin: USA

Page 6 of 6 • Document BD389.5 • 08/01/2023

### Fiplex

2101 NW 79th Avenue  
Miami, FL 33122  
305 884-8991  
www.fiplex.com

