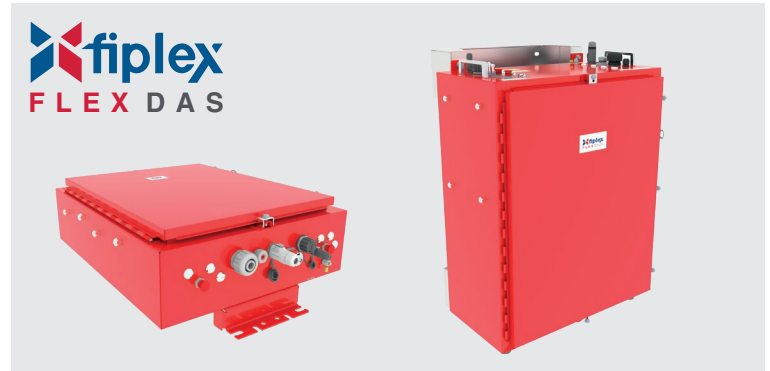


# HIGH POWER OVER THE AIR PUBLIC SAFETY CENTRIC DAS 136 - 512 MHz

**DH14 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
- Preserves the far end communications and protects BTS Rx sensitivity
- IFC 2015, 2018, 2021 Edition
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524.
- 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

## Specifications

Specifications	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	150 KHz, 100 KHz, 75 KHz, 62.5 KHz, 50 KHz, 37.5 KHz, 25 KHz & 12.5 KHz
Group delay	Channel Selective 150KHz, 11.5µS Channel Selective 100KHz, 13.5µS Channel Selective 75KHz, 16.0µS Channel Selective 62.5KHz, 18.0µS Channel Selective 50KHz, 21.0µS Channel Selective 37.5KHz, 25.5µS Channel Selective 25KHz, 35.0µS Channel Selective 12.5KHz, 61.5µS or Band selective: 3.5 to 6.5µS, depending on BWA
Supported Fiber Loss	20dBo max
Optical connectors	LC /APC compatible with LC/UPC
Optical return loss	>45dB
RF Input/Output Impedance	50Ω
RF connectors	N(f)
Overall gain (Master + Remote)*	80dB regardless fiber length
Noise figure	<9dB

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DH14 Series

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 +24/-48VDC (see table)
Power consumption	80W
Housing	IP67 / NEMA4X
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 Cabinet Type "E": 30x 24 x 12 in
MTBF	>50,000 hours

Remote Unit Electrical and Mechanical Specifications	Value
Composite Output Power, DL *	VHF: 30 dBm UHF: 37 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/-48VDC (see table)
Power Consumption	130W
Housing	IP67 / NEMA4X
Environmental	EN 300 019 4.1
Temperature range	-22° to +131° F • -30° to +55° C
Humidity	< 95% non condensing
Dimension and weight	30x 24 x 16 in
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	P3TDH14-6A

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

# HIGH POWER OVER THE AIR PUBLIC SAFETY CENTRIC DAS 136 - 512 MHz

**DH14 Series**

DH14 [CABINET]	[PWR]	- [TYPE]	- A [BAND]	- [FILTERING VHF]	[FILTERING UHF]	-3037
Type C Type E	A: AC D: DC	M: Master R1: Remote 1 FO R2: Remote 2 FO	V: 136-174 U: 450-470 T: 470-512 UT: 450-512 VU: 136-174+450-470 VT: 136-174+470-512 VUT: 136-174+450-512	ND: NO DUPLEX 20: 2 MHz BW 35: 3.5 MHz BW	ND: NO DUPLEX 07: 0.7MHz BW - Band U 450-470MHz 07: 0.7MHz BW - Band T 470-512MHz 20: 2.0MHz BW - Band U 450-470MHz 20: 2.0MHz BW - Band T 470-512MHz 40: 4.0MHz BW - Band U 450-470MHz 15: 1.5MHz BW - Band T 470-512MHz 50: 5.0MHz BW - Band L 380-430MHz 50: 5.0MHz BW - Band U 450-470MHz MDA: 453-454/458-459 & 460-462/465-467MHz WMO: 489-491/492-494 & 496.3-497/499.3-500 MHz RWC: 483.4-484.5/486.4-487.5 & 488.5-489/491.5-492 MHz 2020: Dual sub band 2.0MHz BW each - Band U 450-470MHz 0740: Dual sub band 0.7 and 4.0MHz BW each - Band U 450-470MHz 0707: Dual sub band 0.7MHz BW each - Band T 470-512MHz 1515: Dual sub band 1.5MHz BW each - Band T 470-512MHz 0715: Dual sub band 0.7 and 1.5MHz BW each - Band T 470-512MHz 2007: Dual sub band 2.0MHz BW in Band U 450-470MHz and 0.7MHz BW in Band T 470-512MHz 2015: Dual sub band 2.0MHz BW in Band U 450-470MHz and 1.5MHz BW in Band T 470-512MHz 2020: Dual sub band 2.0MHz BW in Band U 450-470MHz and 2.0MHz BW in Band T 470-512MHz	(only remotes)

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- \* Cabinet type depends on band and filtering options selection
- \* Only one filter option per band

