

# ENTERPRISE DAS MASTER

## 136 - 512 MHz

# DH14 Series

### Product Features

- Specifically designed for LMR and Public Safety Applications
- 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 BTS Rx sensitivity
- Works with Enterprise DAS Remotes (A Series)
- Signal Booster functionality, TO MOBILE RF Port available



### 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

### Value

Fiber Optic	Single mode
WDM	Yes
Optical wavelengths	1310 / 1550 nM
Operational bands	136 - 174 MHz & 450 - 512 MHz
Number of channel filters	32 UL - 32 DL + 2 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	5 dBo max
Optical return loss	>45dB
RF Input/Output Impedance	50Ω
Max Operational DL Input Power	-35dBm
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
Overall Gain (Master + Remote)	80dB
RF connectors	N(f)

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Optical connectors	FC / APC
Number of optical ports	4
Noise figure	<9dB
Power Supply	110VAC 60Hz & +24/-48VDC
Power consumption	100W
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	30x24x12 in • 35 kgr
MTBF	>50,000 hours

Signal Booster Specifications	Value
RF Ports	To Base & To Mobile
Operational bands	VHF + UHF
Number of band pass (TO MOBILES Port)	One per band
Bandwidth (TO MOBILES Port)	Full band
Composite Output Power, DL (TO MOBILES Port)	VHF: 24 dBm UHF: 30 dBm
Overall Gain	80 dB

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
ETSI	EN301489-1; EN301489-18 EN60950-1; TS 101 789-1

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DH14E	A	- [TYPE]	- A [BAND]	- [FILTERING VHF]	[FILTERING UHF]
		-E4: ENTERPRISE MASTER 4 OPTICAL PORTS	<b>VL:</b> 136-174+380-430 <b>VU:</b> 136-174+450-470 <b>VT:</b> 136-174+470-512 <b>VUT:</b> 136-174+450-512	<b>ND:</b> NO DUPLEX <b>20:</b> 2MHz BW <b>35:</b> 3MHz BW	<b>ND:</b> NO DUPLEX <b>07:</b> 0.7MHz BW - Band U 450-470MHz <b>07:</b> 0.7MHz BW - Band T 470-512MHz <b>20:</b> 2.0MHz BW - Band U 450-470MHz <b>20:</b> 2.0MHz BW - Band T 470-512MHz <b>40:</b> 4.0MHz BW - Band U 450-470MHz <b>15:</b> 1.5MHz BW - Band T 470-512MHz <b>50:</b> 5.0MHz BW - Band L 380-430MHz <b>50:</b> 5.0MHz BW - Band U 450-470MHz <b>MDA:</b> 453-454/458-459 & 460-462/465-467MHz <b>WMO:</b> 489-491/492-494 & 496.3-497/499.3-500 MHz <b>RWC:</b> 483.4-484.5/486.4-487.5 & 488.5-489/491.5-492 MHz <b>2020:</b> Dual sub band 2.0MHz BW each - Band U 450-470MHz <b>0740:</b> Dual sub band 0.7 and 4.0MHz BW each - Band U 450-470MHz <b>0707:</b> Dual sub band 0.7MHz BW each - Band T 470-512MHz <b>1515:</b> Dual sub band 1.5MHz BW each - Band T 470-512MHz <b>0715:</b> Dual sub band 0.7 and 1.5MHz BW each - Band T 470-512MHz <b>2007:</b> Dual sub band 2.0MHz BW in Band U 450-470MHz and 0.7MHz BW in Band T 470-512MHz <b>2015:</b> Dual sub band 2.0MHz BW in Band U 450-470MHz and 1.5MHz BW in Band T 470-512MHz <b>2020:</b> Dual sub band 2.0MHz BW in Band U 450-470MHz and 2.0MHz BW in Band T 470-512MHz

\* Only one filter option per band