

PUBLIC SAFETY CENTRIC DAS MASTER 136 - 869 MHz

DH147S Series

Product Features

- Single stock item, field programmable for VHF + UHF or 700MHz + FirstNet + 800 MHz
- Specifically designed for LMR and Public Safety Applications
- Redundancy features
- Field expandable
- 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
- NFPA Compliant
- Preserves the far end communications and protects BTS Rx sensitivity
- Works with Public Safety Centric DAS Remotes (DH Series)



Applications

- For P25 Ph1, P25 Ph2, DMR, TETRA, C2000, LTE (up to 960MHz) 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	VHF + UHF, PS700 + FirstNet + PS800
Number of channel filters	64 channels + 2 BW 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 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	-6 dBm
UL IM and spurious generation	< -13dBm
UL manual attenuator	20dB in 1dB steps
Overall gain (Master + Remote)	80dB in DL, 47dB in UL, regardless fiber length

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RF connectors	N(f)
Optical connectors	LC / APC / Compatible with LC / UPC
Number of Optical ports	8
Noise figure	<9dB
Power Supply	110VAC 60Hz & +24/-48VDC
Power consumption	40W
Housing	Rack mount, 1 RU
Environmental	IP30
Temperature range	-22° to +131° F • -30° to +55° C
Humidity	<95% non condensing
Dimension and weight	See table
MTBF	>100,000 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
ETSI	EN301489-1; EN301489-18 EN60950-1; TS 101 789-1

Model	Type	Dimension	Weight
DH147S-D-RMA	VHF + UHF / PS700 + FirstNet + PS800, Class A, 8 ports	19 in rack, 1 RU	6 kg

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