

# 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<br>Channel Selective 100KHz, 13.5µS<br>Channel Selective 75KHz, 16.0µS<br>Channel Selective 62.5KHz, 18.0µS<br>Channel Selective 50KHz, 21.0µS<br>Channel Selective 37.5KHz, 25.5µS<br>Channel Selective 25KHz, 35.0µS<br>Channel Selective 12.5KHz, 61.5µS<br>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<br>Local: USB (POWER STATUS, MU STATUS, RM STATUS)<br>Remote: SNMP (Ethernet) |
| Master Unit Configuration | Local: USB or Ethernet (Web browser)<br>Remote: Via SNMP or Web browser                       |

| Normative | Value  |
|-----------|--|
| Standards | ITU T G 652<br>EN60825-1                                 |
| FCC       | FCC, CFR 47, Part 15, Subpart B, Class A digital devices |
| ETSI      | EN301489-1; EN301489-18<br>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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