

# PUBLIC SAFETY CENTRIC DAS REMOTE

## 758 - 869 MHz

DH7S 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
- AGC per channel and time slot, no Far End communication Degradation
- Work with Public Safety Centric DAS Master
- 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, 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	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
Number of optical ports	1 or 2 for Redundancy
Optical return loss	> 45dB
Number of RF ports	1 for service antenna
RF Input/Output Impedance	50Ω
UL maximum input power	0dBm
UL noise reduction	UL squelch per channel, programmable
manual attenuator	20dB in 1 dB steps +/- 0.5 dB

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RF connectors	N (f)
Optical connectors	LC / APC / Compatible with LC / UPC
Composite Output Power, DL	700&800 (including FirstNet): 33 dBm per band
DL IMD and spurious generation	< -13 dBm
Noise figure	< 9 dBm
AC Supply	110/220VAC 50/60Hz
Power Consumption	80W
DC Supply	Optional, 24-48VDC
Housing	IP67 / NEMA4X
Environmental	EN 300 019 4.1
Temperature range	-22° to +131° F • -30° to +55° C
Humidity	< 95% non condensing
MTBF	> 50.000 hours

Control and Alarms	Value
Alarms report	Via Master Unit Local: USB (POWER STATUS, MU STATUS, RM STATUS) Remote: SNMP (Ethernet)
Remote Unit Configuration	Local: USB or Ethernet (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	P3TDH7S-4A

Model	Type	PWR Supply	Dimension	Weight
DH7S-A-7S33AR1	REMOTE PS700 & FirstNet & PS800 - 1 Fiber Optic Port	AC	17.7 X 17.3 X 5.1 in	24 kg
DH7S-D-7S33AR1	REMOTE PS700 & FirstNet & PS800 - 1 Fiber Optic Port	DC	17.7 X 17.3 X 5.1 in	24 kg
DH7S-A-7S33AR2	REMOTE PS700 & FirstNet & PS800 - 2 Fiber Optic Port	AC	17.7 X 17.3 X 5.1 in	24 kg
DH7S-D-7S33AR2	REMOTE PS700 & FirstNet & PS800 - 2 Fiber Optic Port	DC	17.7 X 17.3 X 5.1 in	24 kg

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