

OVER THE AIR PUBLIC SAFETY CENTRIC DAS 758 - 869 MHz

DH7S Series

Product Features

- Specifically designed for 700 MHz and 800 MHz, LMR and Public Safety Applications
- Redundancy features
- 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
- Works with Public Safety Centric DAS Remotes (DH Series)
- 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



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	PS700, FirstNet, PS800
Number of channel filters	64 channels + 4 BD 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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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 & +24/-48VDC
Power consumption	70W
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	See table
MTBF	>50,000 hours

Remote Unit Electrical and Mechanical Specifications	Value
Composite Output Power, DL	33 dBm per band
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
AC Supply	110/220VAC 50/60Hz
Power Consumption	100W
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
Dimension and weight	See table
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
ETSI	EN301489-1; EN301489-18 EN60950-1; TS 101 789-1

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Model	Type	PWR Supply	Dimension	Weight
DH7S-A-M	Master 700MHz + FirstNet + 800MHz - Class A	AC & DC	27,2 x 20 x 9 in	27Kgr
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