

ENTERPRISE DAS MASTER

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
- NFPA Compliant
- Preserves BTS Rx sensitivity
- Signal Booster functionality, TO MOBILE RF Port available



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	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	5dBo 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
UL IM and spurious generation	< -13dBm
UL manual attenuator	20dB in 1dB steps
Overall Gain (Master + Remote)	80dB

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RF connectors	N(f)
Optical connectors	FC / APC
Number of Optical Ports	4
Noise figure	<9dB
AC Supply	110/220 VAC 50/60Hz
Power consumption	80W
DC Supply	Optional, 24 - 48 VDC
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

Signal Booster Specifications

Value

RF Ports	To Base & To Mobile
Operational bands	PS700 + FirstNet, PS800
Number of band pass (TO MOBILE Port)	One per band
Bandwidth (TO MOBILE Port)	Full band
Composite Output Power, DL (TO MOBILE Port)	PS700 + FirstNet: 33dBm PS800: 33dBm
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

Model	Type	PWR Supply	Dimension	Weight
DH7S-A-EM4	MASTER 700 + FirstNet + 800 - CLASS A	AC	17.7 x 17.3 x 5.1 in	24 kg
DH7S-D-EM4	MASTER 700 + FirstNet + 800 - CLASS A	DC	17.7 x 17.3 x 5.1 in	24 kg