PUBLIC SAFETY CENTRIC DAS SYSTEM
136 - 869 MHz

DAS Series

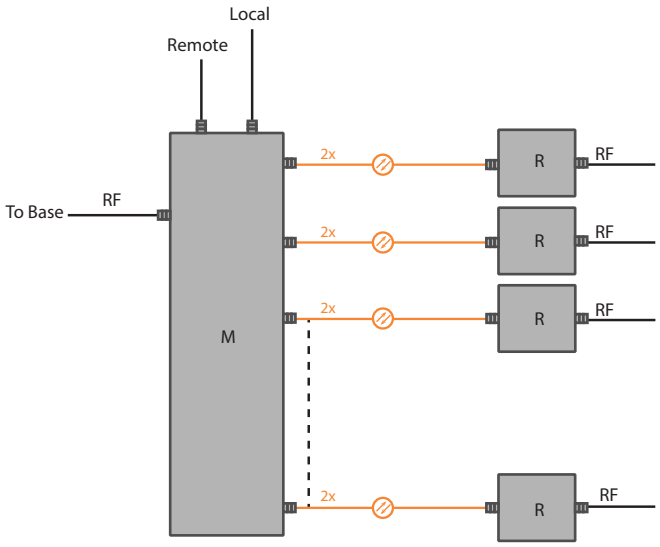
Product Features

- DAS Specifically designed for LMR and Public Safety Applications
- Field expandable
- No need of "Front End BDA" or "POI", reduced infrastructure cost
- Channelized DAS
- 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, no Far End communication Degradation
- Same unit supports Over The Air (OTA) operation
- NFPA Compliant

Applications

- For P25 Ph1, P25 Ph2, DMR, TETRA, NXDN and Conventional Systems
- Indoor: tunnels, buildings, subways, airports, among others
- Outdoor: stadiums, canyons, dense urban areas, remote rural towns

Typical application



Notes:
M: Master Unit
R: Remote Unit

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Specifications	Value
Fiber Optic	Single mode
WDM	Yes
Optical wavelengths	1310 / 1550 nM
Operational bands	VHF, UHF, PS700, PS800
Maximum fiber distance	25 miles • 40 km Max
Number of fibers per Remote Unit	2 - One for MU-RU Communication and one for RFoF
Number of channel filters	20 channels
Available channel filter BW	15KHz, 20KHz, 30KHz, 45KHz, 90KHz, 180KHz and Full Band
Group delay (excluding fiber delay)	55 µS (15 KHz BW) +/- 3µS 45 µS (20 KHz BW) +/- 3µS 32 µS (30 KHz BW) +/- 2µS 24 µS (45 KHz BW) +/- 2µS 14 µS (90 KHz BW) +/- 2µS 12 µS (180 KHz BW) +/- 2µS 4 µS (Full Band)

Master Unit Electrical and Mechanical Specifications	Value
Supported Fiber Loss	10dBo max
Optical return loss	>45dB
Number of optical ports	12, (six for MU-RU Communication and six for RFoF)
RF Input/Output Impedance	50Ω
Max Operational DL Input Power	-35dBm
DL manual attenuator	20dB in 1dB steps per optical port
Maximum UL output power	+24 dBm (+18dBm for DH300-M6)
UL IM and spurious generation	< -13dBm (<-36dBm for DH300-M6)
UL manual attenuator	20dB in 1dB steps per optical port
RF connectors	N(f)
Optical connectors	LC / APC for MU-RU comunication - SC / APC for RFoF
AC Supply	110/220 VAC 50/60Hz
Power consumption	65W
DC Supply	Optional
Housing	IP67 / NEMA4X
Environmental	EN 300 019
Temperature range	-4º to +131º F • -20º to +55º C
Humidity	<95% non condensing
Dimension	20.2 x 18.2 x 9 in • 514 x 462 x 230 mm

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Weight	55 lbs • 25 Kg for termination "-M6" 59 lbs • 27 Kg for termination "-M12" only PS 700/800
MTBF	>50,000 hours
Standards	ITU T G 652 , EN60825-1

Remote Unit Electrical and Mechanical Specifications	Value
Number of optical ports	2, one for MU-RU communication and one for RFoF
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 1dB steps +/- 0.5 dB
RF connectors	N(f)
Optical connectors	LC/APC for MU-RU communication - SC/APC for RFoF
Composite Output Power, DL	DH124-R = +24dBm DHS37-R= +37dBm DH437-R= +37dBm DH336-R= +36dBm DH737-R= +37dBm
DL IMD and spurious generation	< -13dBm (>60dBc for DH336-R)
Noise figure	<9dB
AC Supply	110/220 VAC 50/60Hz
Power consumption	140W máx
DC Supply	Optional, see table
Housing	IP67 / NEMA4X
Environmental	EN 300 019 4.1
Temperature range	-22º to +131º F • -30º to +55º C
Humidity	<95% non condensing
Dimension	20.2 x 18.2 x 9 in • 514 x 462 x 230 mm
Weight	55 lbs • 25 Kg
MTBF	>50,000 hours

Control and Alarms	Value
Alarms report	Via Master Unit Local: USB (POWER STATUS, DM STATUS, DR STATUS) Remote: SNMP (Ethernet)
Master Unit Configuration	Local: USB or Ethernet (Web browser) Remote: Via SNMP or Web browser
Remote Configuration	Local: USB or Ethernet (Web browser) Remote: via Master Unit

Normative	Value
Standards	ITU T G 652 EN60825-1
FCC	FCC, CFR 47, Part 15, Subpart B, Class A digital devices FCC, CFR 47, Part 90, Subpart I
ETSI	EN301489-1; EN301489-18