UHF DIGITAL SIGNAL BOOSTERS
406.1 - 420 MHz • Class A

DH4L37-002

Product Features

- Channel Selective, software programmable
- Fully digital signal boosters, FPGA based
- Auto diagnostic
- Uplink squelch, per channel and per time slot
- User adjustable gain control, UL and DL independent, per channel
- Automatic Gain Control, per channel and per time slot
- Weatherproof enclosure, IP67/NEMA4X
- NFPA compliant
- Built in spectrum analyzer



Applications

- For P25, TETRA, DMR, NXDN and Conventional systems
- Indoor coverage: tunnels and mobile fast-deploy communication units
- Outdoor coverage: oil rigs, stadiums, dense urban areas, rural areas, cliffs

Specification	Value
Type	Digital Signal Boosters
Frequency range	406.1 - 420 MHz
Passband BW. min	Channel Selective (90KHz, 45KHz, 30KHz, 20KHz, and 15KHz BW)
Number of Passband	Channel Selective (90KHz, 45KHz, 30KHz, 20KHz, and 15KHz BW), 1 to 32
Gain, maximum	80dB
Passband ripple	+/- 3dB
Gain, manual control	28dB range, digitally controlled in 1dB steps
Composite output power, DL	+37dBm
Composite output power, UL	+24dBm
IMD and Spurs	<-13dBm
Simplex option	Configurable
Noise figure	9dB at maximum gain
Group delay	Channel Selective 90KHz, 14µS Channel Selective 45KHz, 23µS Channel Selective 30KHz, 32µS Channel Selective 20KHz, 45µS Channel Selective 15KHz, 55µS
Maximum input power, no damage	0dBm (UL) -35dBm (DL)
Connectors	N(f) as standard
RF Input/Output impedance	50Ω
Uplink squelch function	Yes, user selectable, to avoid UL noise when no carriers present, by time slot and by channel (Channel Selective model only)

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Specifications	Value
Self diagnostic platform	Microprocessor based
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, temperature, AGC, RF overload.
Local management and supervising	Local access via USB and Ethernet (Web Browser)
Remote management and supervising	Remote access via Ethernet. Wireless MODEM (SNMP) as optional (RC-G)
RoHS compliance	Yes
Ac Supply	110VAC, 50/60 Hz.
Power Consumption	220W
DC Supply	+24VDC & -48VDC
Housing	IP67 / NEMA4X
Temperature range	-13º to 131º F • -25º to +55º C
Cooling	Natural convection
Dimension	20.2 x 18.2 x 9 inches • 514 x 462 x 230 mm
Weight	55 lbs • 25 kg
Mounting	Wall mounting
MTBF	>50.000 hours

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