

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

| 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 | -13° to 131° F • -25° to +55° 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 |