

UHF DIGITAL SIGNAL BOOSTERS

450 - 512 MHz • Class B

DH437

Product Features

- BWA, software programmable
- Fully digital signal boosters, FPGA based
- Auto diagnostic
- User adjustable gain control, UL and DL independent, per sub band
- Automatic Gain Control, per sub band
- 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 BDA
Frequency range	450 - 512 MHz
Passband BW. min	2 MHz or 700KHz
Number of Passband	8 sub bands UL and DL
Gain, maximum	80dB
Passband ripple	+/- 3dB
Gain, manual control	28dB range, digitally controlled in 1dB steps
Composite output power, DL	+37dBm (2MHz BW) & +34dBm (700KHz BW)
Composite output power, UL	+24dBm (2MHz BW) & +21dBm (700KHz BW)
IMD and Spurs	<-13dBm
Simplex option	Configurable
Noise figure	9dB at maximum gain
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)
Self diagnostic platform	Microprocessor based
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
Power Supply	AC or DC
Power Consumption	220W
Housing	IP67 / NEMA4X
Temperature range	-13° to 131° F • -25° to +55° C

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406 - 512 MHz • Class A

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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