UHF DIGITAL SIGNAL BOOSTERS
465 - 485 MHz

DH430-288
DH430-289

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

- 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 (without Antenna Feedback Cancellation)
Frequency range	465 - 485 MHz
Passband BW	2MHz
Internal Duplexer	No
Number of Channels	Channel Selective (90KHz, 45KHz, 30KHz, 20KHz, and 15KHz BW), 1 to 32
Gain, maximum	80 dB
Passband ripple	+/- 2.0 dB
Gain, manual control	28dB range, digitally controlled in 1dB steps
Antenna isolation	Max Gain + 15 dB
Composite output power, DL	+30 dBm composite
Composite output power, UL	+24 dBm composite
IM and spurious generation	< -13 dBm
Simplex option	Configurable
Noise figure	9.0 dB max at maximum gain
Impedance	50 Ω
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	0 dBm (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

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Specification	Value
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, battery backup failure, temperature, AGC, RF overload, poor antenna isolation.
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.
RoHS compliance	Yes
Power Supply	See table
Power Consumption	170 W
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

Product Code	Class	Configuration	Composite Output PWR	PWR Supply Option
DH430-288	A - 32 channel UL 32 channel DL	01	+30dBm	AC
DH430-289	A - 32 channel UL 32 channel DL	01	+ 30dBm	DC

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WARNING: This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENCE or express consent of an FCC Licensee to operate this device. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of $100,000 for each continuing violation.

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