

ECHO CANCELLATION PUBLIC SAFETY DIGITAL SIGNAL BOOSTERS

PS 700 MHz • Class A

DH737F

Product Features

- Fully digital signal boosters, FPGA based
- US and Canada 700MHz band compatible, software adjustable
- Auto diagnostic
- Uplink squelch, per channel and per time slot
- Antenna feedback cancellation
- 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



Digital Signal Boosters

Applications

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



Specification

Value

Type	Echo Cancellation Signal Boosters
Frequency range	763-775 / 793-805 MHz or 764-776 / 794-806 MHz (software adjustable)
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 8.
Gain, maximum	80dB
Passband ripple	+/- 2.0 dB
Gain, manual control	28dB range, digitally controlled in 1dB steps
Antenna isolation	Max Gain - 20dB
Composite output power, DL	+37dBm
Composite output power, UL	+24dBm
IMD	< -13dBm
Noise figure	7.0dB 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	0dBm (UL) -20dBm (DL)
Connectors	N(f) as standard
VSWR at operating frequencies	1.5:1 max
Uplink squelch function	Yes, user selectable, to avoid UL noise when no carriers present, by time slot and by channel

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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	110/220 VAC, 50/60 Hz.
Power consumption	210W
DC Supply	Optional, see table
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

MODEL	NFPA	RC-G	110-220VAC	+24VDC	-48VDC
DH737F-004	X		X		
DH737F-005	X			X	
DH737F-006	X				X
DH737F-010	X	X	X		
DH737F-011	X	X		X	
DH737F-012	X	X			X

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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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