

# PUBLIC SAFETY DUAL BAND DIGITAL SIGNAL BOOSTERS

## PS700 MHz - PS800 MHz • Class A

**DH7S Series**

### Product Features

- Dual band 700 and 800 MHz
- Channel Selective, software programmable
- Fully digital signal boosters, FPGA based
- US and Canada 700MHz band compatible, software adjustable
- Auto diagnostic
- Uplink and downlink squelch, per channel and per time slot
- User adjustable gain control, UL and DL independent, per band, per channel
- Automatic Gain Control per band, per channel, per time slot
- Weatherproof enclosure, IP67/NEMA4X
- Built-in input and output spectrum analyzer
- NFPA compliant



Digital Signal Boosters



### 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	Dual Band Digital Signal Boosters
Frequency range	763-775 / 793-805 MHz or 764-776 / 794-806 MHz (software adjustable) & 806-824 / 851-869MHz
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 12 per band.
Gain, maximum	80 dB
Passband ripple	+/- 2.0 dB
Gain, manual control	28dB range, digitally controlled in 1dB steps, per link, per band
Antenna isolation	Max Gain + 15dB
Composite output power, DL	DH7S2727: +27dBm per band    DH7S3434: +34dBm per band
Composite output power, UL	+21dBm
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

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### Specifications

### Value

Uplink squelch function	Yes, user selectable, to avoid UL noise when no carriers present, per band, per time slot and by channel
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	DH7S2727: 240W    DH7S3434: 405W
DC Supply	Optional, see table
Housing	IP67 / NEMA4X
Temperature range	-13° to 131° F • -25° to +55° C
Cooling	Natural convection
Dimension	18.2 x 20.2 x 9 inches • 462 x 514 x 230 mm
Weight	DH7S2727: 25kg    DH7S3434: 27kg
Mounting	Wall or pole mounting
MTBF	250.000 hours

MODEL	NFPA	RC-G	110-220VAC	+24VDC	-48VDC
DH7S2727-004	X		X		
DH7S2727-005	X			X	
DH7S2727-006	X				X
DH7S2727-010	X	X	X		
DH7S2727-011	X	X		X	
DH7S2727-012	X	X			X

MODEL	NFPA	RC-G	110-220VAC	+24VDC	-48VDC
DH7S3434-004	X		X		
DH7S3434-005	X			X	
DH7S3434-006	X				X
DH7S3434-010	X	X	X		
DH7S3434-011	X	X		X	
DH7S3434-012	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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