

# PS 700 + FIRSTNET BLOCK D + PS 800 DUAL BAND DIGITAL SIGNAL BOOSTERS PS700 MHz - PS800 MHz • Class A

DH7S3434

## Product Features

- Dual band 700 and 800 MHz
- FirstNet Ready
- 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



## Applications

- For P25, PH I & PH II, 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	758-775 / 788-805 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 32. PS700: 30 + FirstNet Block D PS800: 32
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	+33dBm per band
Composite output power, UL	+24dBm per band
IMD	< -13dBm
Noise figure	9.0dB max
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

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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	110VAC, 50/60 Hz
Power consumption	230W
DC Supply	+24VDC & -48VDC
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	59.5 lbs • 27kg
Mounting	Wall or pole mounting
MTBF	250.000 hours