High Capacity Digital Signal Boosters

PS700 - PS800

Product Features

- Supports Public Safety 700 or 800 MHz single band version
- FirstNet™ Band 14 available
- Fully digital signal boosters, FPGA-based on standards and codes
- Uplink and Downlink Squelch, per channel and per time slot on channel selective mode
- User adjustable gain control, UL and DL Independent, per band, per channel and per time slot on channel selective mode
- Automatic gain control per band; Per channel and per time slot on channel selective mode
- Oscillation detection with alarm and auto-shutdown
- Antenna Isolation measurement feature
- Antenna Isolation Alarm
- Weatherproof enclosure, NEMA4
- NFPA compliant with dry contact alarms
- 3 level of downlink Output power: 0.5W or +27dBm, 2W or +33dBm, 5W or +37dBm
- High-Capacity channel filters: 64 channels
- Assisted GUI Wizard with Automatic Calibration Features (Patent Pending) to reduce the uplink noise
- Auto Diagnostic
- 3 Year Warranty
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (Federal Communications Commission-US)
- Industrial Canada (IC) Compliant
- IFC 2015, 2018, 2021 Edition Standards
- ISO 9001 Compliant
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition, and NFPA 1225 2022 Edition
- RoHS Compliant
- UL2524 3rd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524



0.5W and 2W units



5W Units

Applications

- For P25 Phase I & Phase II, DMR, NXDN and Conventional Systems
- Indoor Coverage: Buildings, schools, hospitals, casinos, tunnels, metro stations
- Outdoor Coverage: Oil rigs, stadiums, dense urban areas, rural areas

Specification	Value
Type	Single Band Digital Signal Boosters
Power Supply	AC 110 VAC, 50/60 Hz or DC +24 VDC (Depending on the Configuration)
Power Consumption	65 W for 0.5 W and 2 W units, 100 W for 5 W units
Frequency Range	PS700: 758-775 / 788-805 MHz or PS800: 806-824 / 851-869 MHz
BWA Filters	Adjustable from 100 KHz to full band in step in steps of 50 KHz
Number of Passband	64 channel filters + 4 BWA
Channel Filter Options	150 KHz, 100 KHz, 75 KHz, 62.5 KHz, 50 KHz, 37.5 KHz, 25 KHz and 12.5 KHz
Gain (Maximum)	85 dB
Passband Ripple	+/-2.0 dB
Gain (Manual Control)	30 dB range, digitally controlled in 1 dB steps, per link, per band
Antenna Isolation	Max Gain +20 dB
Composite Output Power (DL)	• 0.5 W / +27 dBm or • 2 W / +33 dBm or • 5 W / +37 dBm

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Specification	Value
Composite Output Power (UL)	+27 dBm
IM and Spurious Generation	<-13 dBm
Noise Figure	9.0 dB at Maximum Gain
Group Delay	• Channel Selective 150 KHz, 11.5 µS • Channel Selective 100 KHz, 13.5 µS • Channel Selective 75 KHz, 16.0 µS • Channel Selective 62.5 KHz, 18.0 µS • Channel Selective 50 KHz, 21.0 µS • Channel Selective 37.5 KHz, 25.5 µS • Channel Selective 25 KHz, 35.0 µS • Channel Selective 12.5 KHz, 61.5 µS • Or Band Selective: 3.5 to 6.5 µS, depending on BWA
Maximum Input Power (No Damage)	+5 dBm (UL), +5 dBm (DL)
Maximum Input Power (Normal Operation)	0 dBm (UL), 0 dBm (DL)
RF Connectors	N (f) as standard
RF Input/Output Impedance	50 Ohms (Ω)
Uplink Squelch Function	Yes, user selectable, to avoid UL noise when no carriers present, per band, per time slot and per channel (On Class A mode)
Self Diagnostic Platform	Microprocessor Based
Alarms	• Amplifiers Status • Power Amplifiers Status • Power Supply Failure • Temperature • AGC • RF Overload • Donor Antenna Failure • VSWR Indoor • Oscillation
Housing/Enclosure Rating	NEMA4
Operating Temperature Range	-13º to 131º F (-25º to +55º C)
Cooling	Natural Convection
Weight	• 52.9 lbs (23.9 kg) for 0.5 W and 2 W units • 88 lbs (39.9 kg) for 5 W units
Dimension	• 17.7 x 17.3 x 5.1 in (449.58 x 439.42 x 129.54 mm) for 0.5 W and 2 W units • 30 x 24 x 16 in (762 x 609.6 x 406.4 mm) for 5 W units
Mounting	Wall or pole mounting (Rack Mounting Option Available)
MTBF	50,000 hours
Local Management and Supervising	Local Access via USB Connection
Remote Management and Supervising	Remote Access via Ethernet Connection

Normative/License/Certification	Value
FCC ID for DH7S-A & DH7S-D “Class A”	P3TDH7S-00XA for 5 W and 2 W units P3TDH7S-6A for 5 W units

WARNING: This is NOT a CONSUMER device. It is designed for installation by the FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE 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

Ordering Information

HONBDA-A-727AH:PS 700 MHz incl Band 14 High Capacity, Class A,0.5W / +27dBm, AC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-727AH: PS 700 MHz incl Band 14 High Capacity, Class A,0.5W / +27dBm, DC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-A-S27AH: PS 800 MHz High Capacity, Class A,0.5W / +27dBm, AC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-S27AH: PS 800 MHz High Capacity, Class A,0.5W / +27dBm, DC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-A-733AH: PS 700 MHz incl Band 14 High Capacity, Class A,2W / +33dBm, AC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-733AH: PS 700 MHz incl Band 14 High Capacity, Class A,2W / +33dBm, DC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-A-S33AH: PS 800 MHz High Capacity, Class A,2W / +33dBm, AC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-S33AH: PS 800 MHz High Capacity, Class A,2W / +33dBm, DC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-A-737AH: PS 700 MHz incl Band 14 High Capacity, Class A,5W / +37dBm, AC. NFPA compliant, UL2524 2nd Edition FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-737AH: PS 700 MHz incl Band 14 High Capacity, Class A,5W / +37dBm, DC. NFPA compliant, UL2524 2nd Edition FIPLEX BY HONEYWELL Digital BDA

HONBDA-A-S37AH: PS 800 MHz High Capacity, Class A,5W / +37dBm, AC. NFPA compliant, UL2524 2nd Edition FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-S37AH: PS 800 MHz High Capacity, Class A,5W / +37dBm, DC. NFPA compliant, UL2524 2nd Edition FIPLEX BY HONEYWELL Digital BDA

Standards and Codes

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- FCC (Federal Communications Commission-US)
- ISO 9001 PECB Certified
- Industrial Canada (IC) Compliant
- IFC 2015, 2018, 2021 Edition Standard
- NFPA 72 2013 Edition, NFPA 1221, 2016, 2019 Edition, and NFPA 1225, 2022 Edition Standard
- RoHS Compliant
- UL2524 3rd Edition Standard with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524

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We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
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