

# UHF BAND SELECTIVE ADJUSTABLE SIGNAL BOOSTERS

## 450 -512 MHz • Class B

**DH424V**  
**DH430V**  
**DH437V**

### Product Features

- IF SAW filtering, sharp filtering, outstanding out of band rejection
- Band Selective, Bandwidth adjustable by software
- Uplink squelch, programmable
- User adjustable gain control, UL and DL independent
- Automatic Gain Control
- NFPA compliant
- Weatherproof enclosure, IP67/NEMA4X



UHF Signal Boosters, Band Selective

### Applications

- Buildings, tunnels, stadiums
- Passive DAS
- Leaky cable networks



### RF Specification

Type	Band Selective Signal Boosters, BW Adjustable
Frequency range	450 – 512 MHz
Passband BW. min	See table
Downlink to Uplink separation, min	See table
Gain, maximum	80dB
Passband ripple	+/- 3dB
Gain, manual control	20dB range, digitally controlled in 1dB steps
Antenna isolation control, gain adjustment	0 to 20 dB
AGC range	0 to 40 dB
Composite output power, DL	DH424V: +24dBm (2MHz BW) & +21dBm (700KHz BW) DH430V: +24dBm DH437V: +37 dBm
Composite output power, UL	+24dBm (2MHz BW) & +21dBm (700KHz BW)
IM and spurs	< -13 dBm according to output power
Noise figure, in dB	9dB at maximum gain
Impedance	50 Ω
Group delay	8uS max
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

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### Supervising Specifications

### Value

Self diagnostic platform	Microprocessor based
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, battery backup failure, temperature, AGC, RF overload.
Local management and supervising	Local access via USB and Ethernet
Remote management and supervising	Optional remote access via Ethernet and wireless modem, option RC-G (FIPLEX OMS)
RoHS compliance	Yes

### Electrical Specifications

### Value

AC Supply	110/220 VAC 50/60 Hz
Power Consumption	DH424V: 80W      DH430V:100W      DH437V: 120W
DC Supply	Optional, see table
Housing	NEMA4X
Temperature range	-22° to 140° F • -30° to +60° C
Size, WxDxH	20 x 18.1 x 9 inches • 514 x 462 x 230 mm
Weight	55.1 lbs • 25 kg
Mounting	Wall mounting
MTBF	>50,000 hours

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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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MODEL	NFPA	RC-G	110-220V AC	+24VDC	-48VDC	4 PORTS	INTERNAL DPX 0.7/3	INTERNAL DPX 2/5	INTERNAL DPX 5/10
DH424V-175	X		X			X			
DH424V-176	X			X		X			
DH424V-177	X				X	X			
DH424V-199	X		X						X
DH424V-200	X			X					X
DH424V-201	X				X				X
DH424V-223	X		X					X	
DH424V-224	X			X				X	
DH424V-225	X				X			X	
DH424V-247	X		X				X		
DH424V-248	X			X			X		
DH424V-249	X				X		X		

MODEL	NFPA	RC-G	110-220 VAC	+24VDC	-48VDC	4 PORTS	INTERNAL DPX 0.7/3	INTERNAL DPX 2/5	INTERNAL DPX 5/10
DH430V-175	X		X			X			
DH430V-176	X			X		X			
DH430V-177	X				X	X			
DH430V-199	X		X						X
DH430V-200	X			X					X
DH430V-201	X				X				X
DH430V-223	X		X					X	
DH430V-224	X			X				X	
DH430V-225	X				X			X	
DH430V-247	X		X				X		
DH430V-248	X			X			X		
DH430V-249	X				X		X		

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MODEL	NFPA	RC-G	110-220V AC	+24VDC	-48VDC	4 PORTS	INTERNAL DPX 0.7/3	INTERNAL DPX 2/5	INTERNAL DPX 5/10
DH437V-175	X		X			X			
DH437V-176	X			X		X			
DH437V-177	X				X	X			
DH437V-199	X		X						X
DH437V-200	X			X					X
DH437V-201	X				X				X
DH437V-223	X		X					X	
DH437V-224	X			X				X	
DH437V-225	X				X			X	
DH437V-247	X		X				X		
DH437V-248	X			X			X		
DH437V-249	X								