

WMATA UHF DIGITAL SIGNAL BOOSTERS

UHF • Class A

DH437-2

Product Features

- Channel Selective, dual band, 12 channels per band, software programmable
- Fully Digital Signal Boosters, FPGA based
- Auto diagnostic
- Uplink squelch
- User adjustable gain control, UL and DL independent
- Automatic Gain Control
- Weatherproof enclosure, IP67/NEMA4X



Specification	Value
Type	Digital Signal Boosters, dual subband
Frequency range	489.5 - 491.0 & 492.5 - 494.0MHz / 496.3 - 496.7 & 499.3 - 499.7MHz
Passband	B.W. min Channel Selective (90KHz, 45KHz, 30KHz, 20KHz or 15KHz BW)
Number of Passband	Channel Selective (90KHz, 45KHz, 30KHz, 20KHz and 15KHz BW), 12 per band
Downlink to Uplink separation, min	Factory adjusted
Gain, max	80dB
Passband ripple	+/- 2.0 dB
Gain, manual control	28dB range, digitally controlled in 1dB steps
Composite output power, DL	+17dBm per carrier @ 8 carriers per band
Composite output power, UL	+10dBm per carrier @ 8 carriers per band
IMD	<-13dBm
Noise figure	6.0dB max at maximum gain
Impedance	50 Ω
Group delay	Channel Selective 90KHz, 14uS Channel Selective 45KHz, 23uS Channel Selective 30KHz, 32uS
Maximum input power, no damage	0dBm
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 (Channel Selective model only)
Self diagnostic platform	Microprocessor based
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, battery backup failure, temperature, AGC, RF overload, poor antenna isolation.
Local management and supervising	Local access via USB and Ethernet
Remote management and supervising	Remote access via Ethernet and wireless modem, SNMP and WEB server
RoHS compliance	Yes
Supply	110/220 VAC, 50/60 Hz, 120W, (Optional +24VDC or -48VDC)
Housing	IP67 / NEMA4X
Temperature range	-13° to 131° F • -25° to +55° C
Cooling	Natural convection
Dimension	30 x 20 x 10 inches • 762 x 508 x 254 mm
Mounting	Wall mounting

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