

TETRA AND TETRAPOL UHF DIGITAL SIGNAL BOOSTERS

380 - 512 MHz

DH336

Product Features

- Compatible with TETRA and TETRAPOL
- Channel Selective, software programmable
- Fully digital signal boosters, FPGA based
- Auto diagnostic
- Uplink squelch, per channel and per time slot
- User adjustable gain control, UL and DL independent, per channel
- Automatic Gain Control, per channel and per time slot
- Weatherproof enclosure, IP67/NEMA4X
- Built in spectrum analyzer



Digital Signal Boosters

Applications

- 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	Digital Signal Boosters
Frequency range	380 – 512 MHz
Passband BW. min	Channel Selective (90KHz, 45KHz and 30KHz BW)
Number of Passband	Channel Selective (90KHz, 45KHz, 30KHz and 12,5 KHz BW), 1 to 12
Downlink to Uplink separation, min	10 MHz, factory adjustable
Gain, maximum	80dB
Passband ripple	+/- 2.0 dB
Gain, manual control	28dB range, digitally controlled in 1dB steps
Antenna isolation	Max Gain + 10dB
Composite output power, DL	+36dBm composite
Composite output power, UL	+18dBm composite
IM and spurious generation	< -36dBm
Noise figure	6.0dB max at maximum gain
Impedance	50 Ω
Group delay	Band selective 5MHz BW, 3.5µS Channel Selective 90KHz, 14µS Channel Selective 45KHz, 23µS Channel Selective 30KHz, 32µS Channel Selective 12,5 KHz, 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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Specification	Value
Uplink squelch function	Yes, user selectable, to avoid UL noise when no carriers present, by 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
Remote management and supervising	Remote access via Ethernet or wireless modem, option RC-G (FOMS)
RoHS compliance	Yes
AC Supply	110/220 VAC, 50/60 Hz
Power Consumption	120W
DC Supply	see table
Complies with	EN 301 489-18; ETSI TS 101 789-1, EN 60 950
Housing	IP67 / NEMA4X
Temperature range	-13° to 131° F • -25° to +55° C
Cooling	Natural convection
Dimension	15.3 x 15.3 x 3.5 inches • 390 x 390 x 90 mm
Weight	40 lbs • 18 kg
Mounting	Wall or pole mounting
MTBF	50.000 hours

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MODEL	NFPA	RC-G	AC	24VDC	-48VDC	[CLK 160] 405-430 450-470 485-512	UHF BW5- SPL10	Ceramic DUPX UL=380-385/ DL=390-395	Ceramic DUPX UL=410-415/ DL=420-425
DH336-001			X						X
DH336-003				X					X
DH336-009					X				X
DH336-010	X		X						X
DH336-011	X			X					X
DH336-012	X				X				X
DH336-005		X	X						X
DH336-007		X		X					X
DH336-013		X			X				X
DH336-014	X	X	X						X
DH336-015	X	X		X					X
DH336-016	X	X			X				X
DH336-002			X					X	
DH336-004				X				X	
DH336-017					X			X	
DH336-018	X		X					X	
DH336-019	X			X				X	
DH336-020	X				X			X	
DH336-006		X	X					X	
DH336-008		X		X				X	
DH336-021		X			X			X	
DH336-022	X	X	X					X	
DH336-023	X	X		X				X	
DH336-024	X	X			X			X	
DH336-025			X			X	X		
DH336-026				X		X	X		
DH336-027					X	X	X		
DH336-028	X		X			X	X		
DH336-029	X			X		X	X		
DH336-030	X				X	X	X		
DH336-031		X	X			X	X		
DH336-032		X		X		X	X		
DH336-033		X			X	X	X		
DH336-034	X	X	X			X	X		
DH336-035	X	X		X		X	X		
DH336-036	X	X			X	X	X		

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DH336-037		X	X			X		X			X		
DH336-038		X		X		X		X			X		
DH336-039		X			X	X		X			X		
DH336-040		X	X				X	X	X				
DH336-041		X		X			X	X	X				
DH336-042		X			X		X	X	X				
DH336-043			X							X			
DH336-044				X						X			
DH336-045					X					X			
DH336-046	X		X							X			
DH336-047	X			X						X			
DH336-048	X				X					X			
DH336-049		X	X							X			
DH336-050		X		X						X			
DH336-051		X			X					X			
DH336-052	X	X	X							X			
DH336-053	X	X		X						X			
DH336-054	X	X			X					X			
DH336-055			X									X	
DH336-056				X								X	
DH336-057					X							X	
DH336-058	X		X									X	
DH336-059	X			X								X	
DH336-060	X				X							X	
DH336-061		X	X									X	
DH336-062		X		X								X	
DH336-063		X			X							X	
DH336-064	X	X	X									X	
DH336-065	X	X		X								X	
DH336-066	X	X			X							X	
DH336-067			X										X
DH336-068				X									X
DH336-069					X								X
DH336-070	X		X										X
DH336-071	X			X									X
DH336-072	X				X								X

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DH336-073		X	X								X		X
DH336-074		X		X							X		X
DH336-075		X			X						X		X
DH336-076	X	X	X										X
DH336-077	X	X		X									X
DH336-078	X	X			X								X