

# VHF DIGITAL SIGNAL BOOSTERS SIMPLEX WITH TXBP INCLUDED 137 - 174 MHz

**DH124-329    DH124-331**  
**DH124-330    DH124-332**

## Product Features

- 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
- NFPA compliant
- Built in spectrum analyzer



## Specification

## Value

Type	Digital Signal Boosters - Simplex with TxBP
Frequency range	136 - 174 MHz
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
Gain, maximum	80 dB
Passband ripple	+/- 2.0 dB
Gain, manual control	28dB range, digitally controlled in 1dB steps
Antenna isolation	Max Gain + 15 dB
Composite output power, DL	+24 dBm composite
Composite output power, UL	+24 dBm composite
IM and spurious generation	< -13 dBm
Noise figure	9.0 dB max at maximum gain
Impedance	50 $\Omega$
Group delay	Channel Selective 90KHz, 14 $\mu$ S Channel Selective 45KHz, 23 $\mu$ S Channel Selective 30KHz, 32 $\mu$ S Channel Selective 20KHz, 45 $\mu$ S Channel Selective 15KHz, 55 $\mu$ S
Maximum input power, no damage	0 dBm (UL) -35dBm (DL)
Connectors	N(f) as standard
RF Input/Output impedance	50 $\Omega$
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

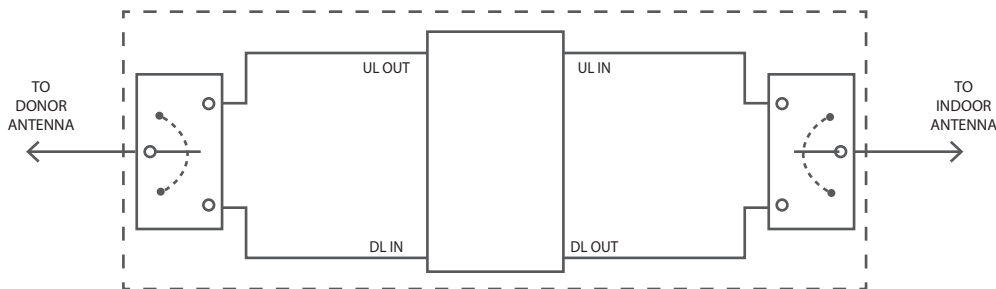
DOC BD333.00 - 14092018 - DMC  
Fiplex is a registered trademark of Fiplex Communications, Inc.  
Fiplex Communications, Inc. reserves the right to change specifications without prior notice.

# VHF DIGITAL SIGNAL BOOSTERS

## SIMPLEX WITH TXBP INCLUDED 137 - 174 MHz

**DH124-329    DH124-331**  
**DH124-330    DH124-332**

Specification	Value
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 (web browser)
Remote management and supervising	Remote access via Ethernet. Wireless modem, SNMP as optional.
RoHS compliance	Yes
AC Supply	110VAC, 50/60 Hz
Power Consumption	170 W
DC Supply	+24VDC & -48VDC
Housing	IP67 / NEMA4X
Temperature range	-13° to 131° F   •   -25° to +55° C
Cooling	Natural convection
Dimension	20.2 x 18.2 x 9 inches   •   514 x 462 x 230 mm
Weight	55 lbs   •   25 kg
Mounting	Wall mounting
MTBF	<50.000 hours



DOC BD333.00 - 14092018 - DMC  
 Fiplex is a registered trademark of Fiplex Communications, Inc.  
 Fiplex Communications, Inc. reserves the right to change specifications without prior notice.

**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.