

# VHF & UHF DIGITAL SIGNAL BOOSTERS

## 136 - 174 MHz or 450 - 512 MHz

**NFBDA-EA-Ax-xA**

### Product Features

- Single VHF or UHF
- Channel Selective
- Fully digital signal boosters, FPGA based
- Auto diagnostic
- Downlink & 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
- Preserves far-end communications
- Preserves BTS UL sensitivity
- Compatible with P25 Phase 1 and 2, TETRA, TETRAPOL, NXDN, DMR, Conventional, MPT1327, among others
- Country of Origin: USA
- 3-year warranty



### Applications

- Indoor coverage: tunnels and mobile fast-deploy communication units
- Outdoor coverage: oil rigs, stadiums, dense urban areas, rural areas, cliffs

Specification	Value
Type	Digital Signal Boosters
Frequency range	136-174 MHz
Internal duplexer	25 KHz BW
Number of Channels	1 or 2
Channel Bandwidth	25 KHz BW
Uplink to Downlink Bandguard	75 KHz
Gain, maximum	85 dB +/- 2.0 dB
Passband ripple	+/- 3 dB
Gain, manual control	28dB range, digitally controlled in 1dB steps
Antenna isolation	Max Gain + 20dB
Output power per channel, DL	1 ch: +13 dBm ; 2 ch: +10 dBm
Output power per channel, UL	1 ch: +13 dBm ; 2 ch: +10 dBm
IM and spurious generation	< -13 dBm
Noise figure	9.0 dB max at maximum gain
Impedance	50 Ω
Maximum input power, no damage	-35 dBm (UL) -35 dBm (DL)
RF Connectors	N(f) as standard
RF Input/Output impedance	50Ω
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, battery backup failure, temperature, AGC, RF overload, poor antenna isolation.

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Local management and supervising	Local access via USB
RoHS compliance	Yes
Power Supply	110VAC 60Hz & +24/-48VDC
Power Consumption	160 W
Housing	IP67 / NEMA4X
Temperature range	-13° to 131° F • -25° to +55° C
Cooling	Natural convection
Dimensions	30x 24 x 12 in
Mounting	Wall mounting
MTBF	<50.000 hours

Part Number	Freq Band	Number of channels	Power Output per channel
NFBDA-EA-AV-1A-1	137 - 150 MHz	1	13 dBm
NFBDA-EA-AV-1A-2	150 - 174 MHz	1	13 dBm
NFBDA-EA-AV-2A-1	137 - 150 MHz	2	10 dBm
NFBDA-EA-AV-2A- 2	150 - 174 MHz	2	10 dBm

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**NOTIFIER**  
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 Country of origin: U.S.A.

