

BDA 896941 BI-DIRECTIONAL AMPLIFIER

Designed and engineered to meet the fire protection codes (NFPA and IFC standards), Comprod's Bi-Directional Amplifier (BDA) features advanced Alarm, Monitoring & Control capabilities ensuring continuous availability of Mission-Critical services.

- Available in 700, 800 and 900 MHz Public Safety bands
- Ideal for indoor applications in commercial and government buildings, parking garages, mining facilities, subway stations and tunnels
- Rack mounted or in NEMA 4/4x waterproof, stainless steel enclosures
- Low noise figure, wide dynamic range
- Visual alarms and remote failure monitoring with Graphical User Interface



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Electrical Specifications	BDA 896941
Frequency Range, MHz	DL: 935-941 UL: 896-901
Passband Ripple, dB	+/- 1.5
Automatic Gain Control (AGC), dB	30
Maximum Gain, dB	+83.5
Manual Gain Control (MGC), dB	0-31 in 1 dB Steps
Noise Figure, dB	2.5 Typical
Delay, Max., μ s	1
Max. Output Power, dBm	DL: +31.5 UL: +31.5
VSWR	1.5:1
Input Voltage, Volts	AC: 115-220 DC: 24-27
Temperature Range, $^{\circ}$ C	-30 to +60
Humidity, %	95
Connectors	N Female
LNA bypass Function Implementation, dBm	-20 @ Input Power
Alarms	AGC, S/D, Power

Mechanical Specifications	BDA 896941
Enclosure	NEMA 4 Painted Steel
Dimensions, in. H, W, D	17.5 x 11 x 9
Weight, lbs	33.5

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Monitoring & Control	Built-in via RS-232 Connector (USB Optional)
Monitor	BDA 896941
	- TX/RX System Gain - TX/RX Attenuation - TX Input Power - TX/RX Output Power - DC Voltage/Current - System Temperature
Alarm	BDA 896941
	- TX Input Over Power - TX/RX Output Over Power - AGC Range Alarm - TX/RX Shutdown - PSU Alarm - Over Temperature
Control	BDA 896941
	- HPA On/Off - Gain - AGC On/Off - Shutdown On/Off - MCU Reset - Alarm Limit



Visual Alarms and Remote Failure Monitoring with Graphical User Interface