

## BDA 806870 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



BDA 806870

Electrical Specifications	BDA 806870
Frequency Range, MHz	DL: 851-869 UL: 806-824
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., $\mu$ 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 806870
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)
<b>Monitor</b>	<b>BDA 806870</b>
	<ul style="list-style-type: none"> <li>- TX/RX System Gain</li> <li>- TX/RX Attenuation</li> <li>- TX Input Power</li> <li>- TX/RX Output Power</li> <li>- DC Voltage/Current</li> <li>- System Temperature</li> </ul>
<b>Alarm</b>	<b>BDA 806870</b>
	<ul style="list-style-type: none"> <li>- TX Input Over Power</li> <li>- TX/RX Output Over Power</li> <li>- AGC Range Alarm</li> <li>- TX/RX Shutdown</li> <li>- PSU Alarm</li> <li>- Over Temperature</li> </ul>
<b>Control</b>	<b>BDA 806870</b>
	<ul style="list-style-type: none"> <li>- HPA On/Off</li> <li>- Gain</li> <li>- AGC On/Off</li> <li>- Shutdown On/Off</li> <li>- MCU Reset</li> <li>- Alarm Limit</li> </ul>



Visual Alarms and Remote Failure Monitoring with Graphical User Interface