# 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

BDA 896941

| 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., µs | 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, °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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# BDA 896941

| | |
|---|---|
| Monitoring & Control | Built-in via RS-232 Connector (USB Optional) |

| Monitor | BDA 896941 |
|---|---|
| | - TX/RX System Gain<br>- TX/RX Attenuation<br>- TX Input Power<br>- TX/RX Output Power<br>- DC Voltage/Current<br>- System Temperature |

| Alarm | BDA 896941 |
|---|---|
| | - TX Input Over Power<br>- TX/RX Output Over Power<br>- AGC Range Alarm<br>- TX/RX Shutdown<br>- PSU Alarm<br>- Over Temperature |

| Control | BDA 896941 |
|---|---|
| | - HPA On/Off<br>- Gain<br>- AGC On/Off<br>- Shutdown On/Off<br>- MCU Reset<br>- Alarm Limit |


Visual Alarms and Remote Failure Monitoring with Graphical User Interface