

PRELIMINARY - UG16-005 **Easy Directional Diversity Amplifier**



This VHF/UHF directional amplifier provides excellent sensitivity for cascaded systems by our patent pending noise floor reduction method. This unit does not require pilot injection nor manual gain setting.

This amplifier is one way and intended for UPLINK diversity operation using two leaky feeders per region.

Approx 10 to 30 dB real world diversity gain is possible in a high multipath environment such as an underground mine.

Control and monitoring of the units is accomplished by communication on the cable between units, or by short range secure Wi-Fi.

An unpowered relay-bypass option is available.

Capabilities

- Directional amplifier
- Pilotless, automatic gain control
- Control by RF on leaky feeder or WiFi
- Low Intermodulation and 30dB control range
- Cable power 18 to 35V
- VHF & UHF ; available 60-960 MHz
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- **A CortexRF product**

Specifications UG16-005

Maximum output power : 10mW PEP
Typical deployed noise floor : -100 dBm
Power consumption : max 5 Watts
Cable Interface : Gland and saddles .
Remote access: RF modem on feeder and 2.4 GHz 802.11b
Typical RF bandwidth : ~ 3%
Enclosure : Hammond watertight aluminium diecast.