



2745 Rhino

Ad Hoc Network COFDM Wireless IP System

Features

- Robust Reliable IP Network
- Rugged Enclosure
- Instant Ad Hoc Networks
- Non Line-of-Sight
- Operates in a Mobile Environment
- Whip and High Gain Antennae Option
- Multi Channel
- Powered from Mains or any 9-36v DC Source Including Battery

Description

The 2745 “**Rhino**” advanced ad-hoc networking system is a revolutionary non line-of-sight wireless system suitable for civilian and emergency services use. The system self adapts and routes data around a mesh network and provides instant data routing at different nodes. The system is based completely on IP, and unlike other Wi-Fi based systems, **Rhino** operates in the L band frequency range.

Each node or independent **Rhino** module consists of a single transceiver. A number of nodes can be linked together under a network umbrella. Each **Rhino** unit has 15 RF channels with 5 non overlapping enabling 5 wireless networks operating in the same band to be operated concurrently in the same area. Each **Rhino** node handles data, authentication, transmission and reception without any inputs from an operator. This makes the system ideal for vehicle mounted applications.

The system can also be deployed in Shopping Malls, Airports, Hospitals and Hotels to provide wire free connectivity and integration with other IP services like internet and video on demand.

Multiple independent networks can be linked together using simple routers to create master networks. Units can be left unattended or solar powered and enabled remotely.

Rhino can be customised depending on application, size constraints, power consumption, efficiency etc.

Options

- UHF, L, S band versions (contact factory)
- Built-in video codec with PAL or NTSC video input
- Vehicle fitting kit with external antenna

Specifications

Modulation:	Intelligent coded OFDM and frequency hopping
Bandwidth:	10MHz. This can be increased or decreased depending on required data rates
Data Rate:	Total pool of 14Mbps for a single network @ 10MHz bandwidth
Power:	9-36v DC
Power Consumption:	1.8Amps @ 12v DC
Interfaces:	RJ45 Ethernet
Optional:	Video in BNC (Analogue), Serial RS232/RS485, audio in/out, relay trigger
Environmental:	Built to IP67 rating
Temperature:	-10°C to +50°C
Frequency Band:	1.3 GHz (others planned)
RF Power:	350mW

Video Options

Video Standards:	MPEG2, MPEG4, H.264
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