

Phantom-II™

IP Modem for License-Free Spectrum

The Phantom-II delivers secure, wireless connectivity between Ethernet and serial devices. Operational in the license-free 902-928 ISM band, Phantom-II offers extraordinary data throughput for point-to-point and point-to-multipoint networks. Typical uses include Ethernet bridging, SCADA networks, and other industrial automation or data collection applications.

Phantom-II can provide Ethernet or serial connectivity between a base station and multiple remote devices, or it can function as a high-speed, transparent bridge between two Ethernet networks.

High Speed

Long Range

Ruggedized

Safe/Secure

telnet, and web browser Network management capability with SNMP V1, V2, V3

User interface through local console,

management and Data networking)

Local and remote wireless firmware upgrading through FTP

Full VLAN Support (for separate

Quality of Service (QoS) Available for

IP Protocols and Ports

Diversity

Connectivity

Key Features

- Low Power Consumption
- Up to 1.2 Mbps Wireless Link Rate
- Master, Remote, Repeater operation in a single unit
- 2 Serial Com Ports, 1 USB Port, and 1 **Ethernet Port**
- Supports Point-to-Point, Point-to-Multipoint, Repeater, Peer-to-Peer
- 100 mW 1 W Adjustable Tx power
- Radius Server Support





Phantom-II Specifications

Frequency

- 902 928 MHz
- 915 928 MHz (Australia)
- 921 929 MHz (New Zealand)

Spread Method

Frequency Hopping / DTS

Link Rate

■ Up to 1.2 Mbps

Error Detection

32 bits of CRC, ARQ

Encryption

128-bit WEP/WPA (Canada & USA only.
 NOT AVAILABLE for export, see –AES option)

Range

■ Up to 30+ miles (50+ km) @ 1.2 Mbps

Sensitivity

- -105 dBm @ 345 kbps link rate
- -97 dBm @ 1.2 Mbps link rate

Output Power

■ 100 mW - 1W (20-30 dBm)

Serial Interface

- RS232
- RS485
- RS422

Serial Baud Rate

300 bps to 921 kbps

USB

- USB 2.0
- USB Console Port
- USB to Serial Data Routing
- USB to Ethernet Data Routing

Ethernet

 10/100 BaseT, Auto - MDI/X IEEE 802.3

Network Protocols

 TCP, UDP, TCP/IP, TFTP, ARP, ICMP, DHCP, HTTP, HTTPS*, SSH*, SNMP, FTP, DNS, Serial over IP, QoS (* Only available in – AES)

Operating Modes

- Point-to-Point
- Point-to-Multipoint
- Store & Forward Repeater
- Peer-to-Peer

Management

- Local Serial Port Console
- Telnet
- WebUI
- SNMP
- FTP & Wireless Upgrade
- RADIUS authentication
- VLAN

Diagnostics

- Battery Voltage
- Temperature
- RSSI, and remote diagnostics

Rejection

Excellent strong signal interference & rejection characteristics

Input IP3

+12 dBm (Antenna Connector)

Input Voltage

■ 7-30 VDC



Power Consumption (Typical @ 12V)

Sleep: < 1 mAIdle: 35 mA

Rx: 110 mA to 145 mATx: 350 mA to 500 mA

Connectors:

Antenna: RP-TNC Bulkhead
 Data: RJ-45 (Ethernet)
 Female DB9
 Mini-USB

Temperature

-40°F to 170°F (-40°C to +75°C)

Humidity

■ 5-95%, noncondensing

Weight

8 oz (237 g)

Dimensions

2.25" x 3.75" x 1.75" (57mm x 95mm x 45mm)

Approvals

- FCC Part 15.247
- IC RSS210

Order Options

■ C1D2 Class 1 Div 2 (for use in hazardous environments)

AES 128/256-bit AES Encryption, Secure Shell, HTTPS (Canada & USA only. NOT AVAILABLE for export)

■ EXP Export Version, removes encryption

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