

Phantom II™

IP Radio Modem for License-Free Spectrum

Cal/Amp®



Experience The Advantage

- Up to 1.2 Mbps wireless link rate
- Low power consumption
- Master, Remote, Repeater in one unit
- 2 serial ports, 1 USB port, and 1 Ethernet Port
- Supports Point-to-Point, Point-to-Multipoint, Repeater, and Peer-to-Peer
- Full VLAN support
- Supports SNMP V1, V2, V3
- QoS support for both serial and IP traffic
- 100 mW - 1 W adjustable Tx power
- Local and remote firmware upgrading
- RADIUS server support

High-Speed Data Connectivity for Industrial and Utility Applications

The Phantom II delivers secure, wireless connectivity in the license-free 902-928 MHz ISM band utilizing Frequency Hopping Spread Spectrum (FHSS) technology. Operational as a master, remote or repeater in a single unit, Phantom II offers extraordinary data throughput for point-to-point, point-to-multipoint and peer-to-peer networks. Typical uses include SCADA, industrial automation or any other data collection applications.

Featuring two serial ports, one Ethernet port and one USB connection, Phantom II provides connectivity between Ethernet and serial devices. This IP modem not only delivers wireless communications between a base station and multiple remotes, it also functions as a high-speed, transparent bridge between two Ethernet networks.

Phantom II features extensive system capabilities with full VLAN support (for separate management and data networking), user interface through local console, telnet, and web browser, and network management with SNMP V1, V2, and V3. And, assuring the best level of performance for each application, Quality of Service (QoS) is available for IP protocols and ports.

Phantom II Specifications

General

Frequency Range	902-928 MHz
Spread Method	Frequency Hopping / DTS
Error Detection	32-bit CRC, ARQ
Modulation	RCFSK
Encryption	128/256-bit AES/WEP/WPA (US & Canada)
Network Protocols	TCP, UDP, TCP/IP, TFTP, ARP, ICMP, DHCP, HTTP, HTTPS, SSH, SNMP, FTP, DNS, Serial over IP, QoS
Management	Local Serial, Telnet, WebUI, SNMP, RADIUS, VLAN
Certifications	FCC, IC, CSA Class 1 Div 2, UL Class I, Div II

Receiver

BER @ 1x10 ⁻⁶	-101 dBm @ 345 kbps; -97 dBm @ 1.2 Mbps
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Transmitter

Carrier Output Power 100 mW - 1 W (20-30 dBm)

Electrical

Tx Current	350-500 mA
Rx Current	110-145 mA
Idle	35 mA
Sleep	< 1 mA
Primary Power	7-30 VDC

Mechanical

Nominal Dimensions	3.85" W x 1.50" H x 2.25" D, (98 x 38 x 57 mm)
Shipping Weight	8 oz. (237 g)

Environmental

Operating Temperature	-40° to +85° C
Operating Humidity	5% to 95% Non-condensing

Interface

Ethernet	10/100 BaseT Auto-MDIX RJ-45
Serial COM 1, COM 2	RS-232, RS-485, RS-422 DB-9
USB	Mini USB 2.0
Antenna	RP-SMA Female Bulkhead (Tx/Rx)
LEDs	RSSI, Tx, Rx, Status, Config

About CalAmp

CalAmp (NASDAQ: CAMP) is a telematics pioneer leading transformation in a global connected economy. We help reinvent businesses and improve lives around the globe with technology solutions that streamline complex IoT deployments and bring intelligence to the edge. Our software applications, scalable cloud services, and intelligent devices collect and assess business-critical data from mobile assets, cargo, companies, cities and people. We call this The New How, powering autonomous IoT interaction, facilitating efficient decision making, optimizing resource utilization, and improving road safety. CalAmp is headquartered in Irvine, California and has been publicly traded since 1983. Lojack is a wholly owned subsidiary of CalAmp. For more information, visit calamp.com, or LinkedIn, Twitter, YouTube or CalAmp Blog.

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