

World Class Communications Anywhere in the World™



Wireless IPxpress™

Advanced Wireless Networking Service

Wireless IPxpress™ combines the freedom of Wi-Fi hot spot technology and the exclusive "follow-me" networking capabilities of CapRock's IPxpress to allow customers to wirelessly communicate from the world's most remote locations. Designed exclusively for extreme environments, Wireless IPxpress is an industrial grade solution engineered for a level of performance and reliability far beyond typical consumer grade wireless access products. Using Wireless IPxpress, customers can securely connect to the Internet or corporate network from a wireless PDA or laptop, with the freedom to move around the remote facility.

Proven Technology

- > Industry standard WiFi - IEEE 802.11 B/G
- > 2.4 GHz frequency band
- > Works with all common laptop computers, PDAs, and task specific wireless devices

Carrier Class Service

- > Speeds up to 54 Mbps
- > Secure connectivity to corporate network
- > Supports roaming onsite and across sites in CapRock network
- > "Plug and play" configuration of IP addresses

Industrial Grade Solutions

- > Twice the power of typical consumer grade products
- > Equipment ruggedized for use in harsh environments
- > Extended wireless reach

Options

- > Onsite network optimization
- > Additional wireless access points
- > Extended coverage areas

Specifications and Capabilities

- > Local Data Rate: up to 54 Mbps
- > Air Interface: IEEE 802.11b/g
- > Data Protocol: IP
- > IP Address Assignment: DHCP
- > Max. Cable Distance: approx. 300 ft. from switch to WAP
- > Environmental
 - operating temp: -4 to 122°F (-20 to 50°C)
 - operating humidity: 10 to 90 %
- > Dimensions
 - WAP: 1.660" x 6.562" x 7.232"
 - antenna: 11.5"
- > Weight
 - WAP: .725 lbs
 - antenna: .41 lbs.
- > Housing: Die-cast aluminum
- > Memory and Processor
 - IBM PowerPC405 (200 MHz)
 - 16 MB RAM; 8 MB Flash memory
- > Input Power Requirements
 - 90 to 240 VAC ±10 percent (power supply)
 - 48 VDC ±10 percent
- > Certification: Wi-Fi Certified

Security Architecture

- > 802.1X support, including Cisco LEAP,
- > EAP-Flexible Authentication via Secure Tunneling (EAP-FAST)
- > Protected EAP- Generic Token Card
- > (PEAP-GTC), PEAP-Microsoft Challenge Authentication Protocol
- > Version 2 (PEAP-MSCHAPv2)
- > EAP-Transport Layer Security (EAP-TLS)
- > EAP-Tunneled TLS (EAP-TTLS)
- > EAP-Subscriber Identity
- > Module (EAP-SIM) to yield mutual authentication and dynamic, per-user; per-session encryption keys (WPA and WPA2)
- > MAC address and standard 802.11 authentication mechanisms

Client Authentication and Encryption Capabilities

- > AES-CCMP encryption (WPA2)
- > TKIP encryption enhancements: key hashing (per-packet keying), message integrity check (MIC) and broadcast key rotation via Cisco TKIP or WPA TKIP
- > Support for static and dynamic IEEE 802.11 WEP keys of 40 bits and 128 bits

