



Wireless LAN

Enterprise Wi-Fi Access Points for Schools, Hospitals and Enterprises

Proxim's ORiNOCO® wireless LANs have led the industry in providing organizations worldwide with enterprise-class wireless networks with the highest reliability, security, upgradeability, flexibility and manageability



With the advent of 802.11n technologies, the age of the truly wireless enterprise is here. With throughput speeds more than double that of many traditional wired LANs, today's enterprises can not only experience greater speed and efficiency, but with all the benefits of mobility as well.

The truly wireless enterprise is about far more than efficiency and convenience, though – it is about a drastic reduction in cost and complexity as well. With throughput performance of greater than 300Mbps (as compared to 80-100 Mbps for the wired LAN), IT no longer needs to spend the time and money to run wire to each and every desk, saving money not only in time spent, but also reducing the size (and cost) of Ethernet switches organizations need to buy. And because Proxim's WLAN solutions are distributed and do not require costly wireless controllers, organizations can avoid the cost of controller upgrades and power issues required to upgrade to 802.11n, while still enjoying a centrally-managed, scalable WLAN.

Enterprise mobility is no longer a luxury for the road warrior or the select few – it is increasingly a requirement for productivity at every stage of an organization. All employees benefit from being able to connect and do business from anywhere, and organizations are able to change more rapidly to better meet business demands. WLAN solutions from Proxim provide unparalleled flexibility and scalability for fast-changing organizations – enabling enterprises to easily redeploy or expand their workforces and facilities without the substantial delays and expense of installing cable or leasing lines.

Proxim Wireless has provided indoor and outdoor WLAN solutions to hundreds of thousands of organizations throughout the world, saving organizations money while enhancing productivity by enabling true, enterprise-wide mobility. And because Proxim is the only company to offer all the components in a complete end-to-end wireless solution – including seamless integration and management of all components – your enterprise WLAN can be integrated with Wi-Fi mesh, WiMAX and wireless backhaul products for the most flexible and scalable wireless systems available.

Advantages

- Extends or replaces your wired LAN for instant network access anywhere
- Significantly reduces the cost and complexity of moves, adds and changes
- Converged voice, video and data with all the benefits of mobility
- Campus connectivity solutions eliminate the high recurring costs of leased lines and install in hours
- Distributed solution enables ultimate scalability, while maintaining centralized management

Applications

- Enterprise-wide mobility for increased productivity
- Building-to-building campus connectivity
- Network redundancy links
- Voice over WLANs
- Enabling video over wireles



| | ORINOCO® CLIENTS | | | ORINOCO® ACCESS POINTS | |
|-----------------------|--|---|--|--|---|
| Product | 11a/b/g ComboCard 11b/g PC Card | 11a/b/g PCI Adapter | 11a/b/g/n USB Client Adapter | AP-800, AP-8000 | AP-4000M, AP-4000 and AP-4900M |
| Description | The ultimate in flexibility for connecting to any Wi-Fi® network: 802.11a, b or g | Wi-Fi PCI adapter for connectivity from a desktop to any 802.11a/b/g network | Flexible 802.11a/b/g/n USB Client adapter for Wi-Fi connectivity from any laptop or desktop | Dual-radio enterprise-class indoor 802.11n access point with QoS, simultaneous a/b/g/n support and enhanced security | Dual-radio enterprise-class indoor mesh access point with QoS, simultaneous a/b/g support and enhanced security |
| Applications | <ul style="list-style-type: none"> Add 802.11a/b/g functionality for mobile connectivity to a laptop Redundant Wi-Fi connectivity Hotspot | <ul style="list-style-type: none"> Add 802.11b/g functionality for mobile connectivity to any desktop computer Redundant Wi-Fi connectivity Hotspot | <ul style="list-style-type: none"> Add fast 802.11n functionality for mobile connectivity to any laptop or desktop computer Continuous connectivity even away from the desk | <ul style="list-style-type: none"> Enable office workers to be mobile while delivering greater throughput performance than at their desks Video and high-speed broadband access solutions for municipalities, public access and local businesses | <ul style="list-style-type: none"> LAN extension for nomadic access to corporate network, Internet and e-mail Hotspot Guest access to Internet Voice, video and data Mobile connectivity for emergency first responders (AP-4900M) |
| Environments | <ul style="list-style-type: none"> Individual user Enterprise end-user Municipal/public safety worker | <ul style="list-style-type: none"> Individual user Enterprise end-user Municipal/public safety worker | <ul style="list-style-type: none"> Individual user Enterprise end-user Municipal/public safety worker | <ul style="list-style-type: none"> Enterprises Hotspots: retail, hotel, airport K-12 and higher education Enterprise metro-area networks | <ul style="list-style-type: none"> Enterprises Hotspots: retail, hotel, airport K-12 and higher education Enterprise metro-area networks |
| Key Features | <ul style="list-style-type: none"> Plug-and-play for Windows PCs or laptops Operates in 802.11b/g (PC Card) 802.11a mode (ComboCard) 802.1X, WPA 802.11i 802.11d global roaming | <ul style="list-style-type: none"> Plug-&-play for Windows PCs Operates in 802.11a/b/g mode 802.1X, WPA, 802.11i 802.11d global roaming | <ul style="list-style-type: none"> Secure, reliable connection from any desktop or laptop Operates in 802.11a/b/g/n mode AES, WPA2, 802.1x, 802.11i 802.11d global roaming Base stand allow versatile installation for optimal connection | <ul style="list-style-type: none"> 320Mbps throughput dual radio 170Mbps throughput single radio Dual-radio design offers operational flexibility and high capacity Operates in 802.11a/b/g/n mode AES, WPA2, 802.1x, 802.11i | <ul style="list-style-type: none"> Dual-radio design offers operational flexibility and high capacity Complete mesh architecture support User-selectable 802.11a, b or g operation IEEE 802.11i and AES encryption Quality-of-service for latency-sensitive voice, data and video applications |
| SPECIFICATIONS | | | | | |
| Frequency Band | <ul style="list-style-type: none"> 802.11b/g: 2.4 GHz 802.11a: 5.15-5.85 GHz (ComboCard only) | <ul style="list-style-type: none"> 802.11b/g: 2.4 GHz 802.11a: 5.15-5.85 GHz | <ul style="list-style-type: none"> 802.11a/b/g/n: 2.4 and 5 GHz | <ul style="list-style-type: none"> 802.11a/b/g/n: 2.4 and 5 GHz | <ul style="list-style-type: none"> 802.11b/g: 2.4 GHz 802.11a: 5.15-5.85 GHz (AP-4000M/AP-4000) 4.90-4.99 GHz (AP-4900M) |
| RF Protocol | <ul style="list-style-type: none"> 802.11b/g 802.11a (ComboCard only) | <ul style="list-style-type: none"> 802.11b/g 802.11a | <ul style="list-style-type: none"> 802.11b/g/n 802.11a/n | <ul style="list-style-type: none"> 802.11b/g/n 802.11a/n | <ul style="list-style-type: none"> 802.11b/g 802.11a |
| Data Rate | 54 Mbps | 54 Mbps | 300 Mbps | 600 Mbps (AP-8000) 300 Mbps (AP-800) | 54 Mbps |
| QoS | Draft 802.11e | Draft 802.11e | 802.11e, WMM | 802.11e, WMM | Draft 802.11e; 802.1p |
| Security | <ul style="list-style-type: none"> AES WPA (Wi-Fi Protected Access) 802.11i WEP (128, 152) | <ul style="list-style-type: none"> AES WPA (Wi-Fi Protected Access) 802.11i WEP (128, 152) | <ul style="list-style-type: none"> AES WPA2 (Wi-Fi Protected Access) 802.11i WEP (64 and 128 bit) | <ul style="list-style-type: none"> AES WPA2 (Wi-Fi Protected Access) 802.11i WEP (64 and 128 bit) | <ul style="list-style-type: none"> 802.11i AES 802.1x TKIP RADIUS based MAC address |

For detailed technical specifications, please visit <http://www.proxim.com/products/wifi>

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