

ITSEXPRESS

ITS Express Interconnect 1000

“Wireless ITS Solutions For The Future”



Interconnect 1000 delivers an unmatched combination of robust performance and affordability in the crowded wireless technology space.

The **Interconnect 1000** Series wireless Bridge/Access Point, based on IEEE 802.11b and IEEE 802.11g Technology, delivers bridging and access point features enabling cost effective access Ethernet-Bridging and access to traffic cabinets within a five mile span. Up to 18 Miles Point to Point with proper elevation and antenna. Maximized for Video multi cast networks. Vlans are trunked for pass thru without stripping out tags. Optimized for Traffic cabinet application, as well as point to point bridging. Bridging and ap access can be simultaneous, if desired. IP68 approved housing is fit for ruggedized outdoor environments.

In addition, supports IEEE 802.1x-compliant and RADIUS (Remote Authentication Dial-In User Services), the most up-to-date wireless security solution for applications in outdoor public places. Also, the cabinet interconnect 1000 provides standard WDS (Wireless Distribution System) bridge functionality joining LAN segments that may be geographically separated (e.g. cabinet to cabinet connections or cabinet to tower connections) Up to 6 WDS bridge links work in Bridge/AP mode allowing simultaneous bridging and AP access, or straight point to point bridging, thus enabling LAN segments to be flexibly connected to mirror any network topology which a traditional wired network can achieve. The Antenna Alignment Utility provides the at-a-glance way to easily assist the antenna deployment through the friendly Windows-based user interface!

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Standards	IEEE802.3u 10/100BaseTX Ethernet with Power-over-Ethernet
Frequency Range	2.4-2.4835 GHz, Direct Sequence Spread Spectrum (DSSS, OFDM)
Data Rate & Modulation	OFDM with BPSK, QPSK, 16QAM, 64QAM (11g) BPSK, QPSK, CCK (11b) 54/48/36/24/18/12/11/9/6/5.5/2/1Mbps auto fallback
Operating Channels	USA: 1-11 (FCC)
Antenna	Circular Polarized & High voltage lightning protector
Security	64-bit and 128-bit WEP encryption, IEEE 802.1x/RADIUS Recommend to use VPN for Best Security
Transmit Power	Up to 20dBm(EU) or 26dBm(US)
Receiver Sensitivity	Better than -85dBm Received Amplified / Filter
Line-of-Sight Range	5 Miles - 18 Miles depending on Antenna and Elevation
Client OS Support	Windows 95/98/2000/ME/NT/XP, Unix and Macintosh
Supported Protocols	NAT, PAP/CHAP, PPPoE, PPP, HTTP, DHCP, TCP/IP, RADIUS, DNS, NetBIOS, AppleTalk, and IPX/SPX
Operating Voltage	Power over Ethernet Injector Included
Network Architecture	Infrastructure, Wireless Distribution System (WDS)
Physical Dimensions	234mm (L) × 170mm (W) × 63mm (H)
Temperature	Operating temperature: -20-75oC Storage temperature: -30-80oC
Humidity	5%-95% non-condensing in storage
Diagnostic LEDs	Power, LAN Link/ACT, RF Link/ACT, System Alive
Emissions	FCC Part 15 Class B & CE

<ul style="list-style-type: none"> o IEEE802.11b/g compliant o High transmit power 1W o WDS - static bridging o AP client - dynamic bridging <ul style="list-style-type: none"> - AP browsing with signal strength - Preferred ESSID/BSSID selection o Transmit power control o Associated wireless clients status o Data rate settings o Link integrity o Wireless client isolation o AP load balancing o Association control • Networking <ul style="list-style-type: none"> o DHCP client & server o Vlan Pass Thru o Packet filtering (Ethernet/TCP/UDP/Port)• Security <ul style="list-style-type: none"> o 64/128-bits WEP o WPA , WPA2-Personal / Enterprise 	<ul style="list-style-type: none"> o WDS with WEP, WPA/WPA2-PSK(TKIP/AES) o EAP-MD5, EAP-TLS, EAP-TTLS and PEAP o Disabling SSID broadcasts o MAC-address-based access control o VPN pass-through • Management <ul style="list-style-type: none"> o Rich set of tools for remote management: Web-based, and UPnP o Secure administration o SNMP v1 & v2 o SNMP traps: Standard and private traps o MIB II, IEEE 802.11 IEEE 802.1d, IEEE 802.1x, and private enterprise MIB o System log o WDS link health monitoring o WDS link quality indicator o Firmware upgrade via HTTP and TFTP o Configuration backup & restore o Hardware watchdog timer • IP68 Approved
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