Voipac Outdoor WLAN 510B/520B

Voipac Outdoor WLAN 510B/520B provides high-speed Point-to-MultiPoint and Point-to-Point network data connections within 2.4 GHz band. The Outdoor WLAN 510B serves as a Station Adapter and Outdoor WLAN 520B serves as an Access Point.

Outdoor WLAN 510B/520B

Voipac Outdoor WLAN is easy and quickly to install. It is installed outdoor next to beam aerial. The unit functions as:

- Wireless LAN Access Point
- Shared Broadband Internet Access
- 5-port Switching Hub
- DSL and Cable modem Support
- PPPoE and PPTP Support
- Fixed or Dynamic IP address
- Conferencing & Telephony Applications
- Special Internet Applications
- Virtual Servers
- URL Filter
- DMZ
- Internet Access Log
- VPN Support
- Standards Compliant
- WEP Support
- Access Control
- DHCP Server
- Multi Segment LAN Support
- Password Protected Configuration
- NAT Protection
- Statefull Inspection Firewall
- Protection against DoS attacs

Microwave link based connection, operating in 2.4 GHz free band, is suitable for areas, where it is not possible to, is very expensive to make, "classical" Ethernet based cable connection. It is suitable either for urban, or suburban areas, as well as for a link construction, e.g. when two buildings, up to 15 km far from each other, should be connected.

Using of Voipac Outdoor WLAN 510B/520B deserved its high popularity because it is easy to install close to receiving aerial, which reduces need for coaxial line to minimum while it simultaneously reduces losses almost to zero. Another advantage is simple power supply of the unit; where Ethernet conductor is used for power and Ethernet signal supply and Power over Ethernet technology is applied. Such a design allows us to extend distance between Outdoor WLAN510B/520B and network device (e.g. firewall, switch) up to 100 meters. The units are optionally delivered with integrated planar aerial (14-18 db).

Other unit's characteristics:

- Point-to-Multipoint connection where multiple clients are connecting to one shared device. Most suitable for ISP.

- Point-to-Point connection, where two devices are interconnected and no other device enters their communication. Suitable for interconnection of two distant branch offices.

- Range up to 15 km.

- Sophisticated dynamic algorithm that minimizes frequency interference at a transmission.

- 10/100 BaseT Ethernet interface allows integration of both 10 and 100 Mb/s Ethernet environments.

- Standard IP Routing allows existence of several LANs with different IP-Subnet. IP-Subnet provides for making and setting up of secure separated networks, which makes easy to add WLAN components to the existed wired networks.

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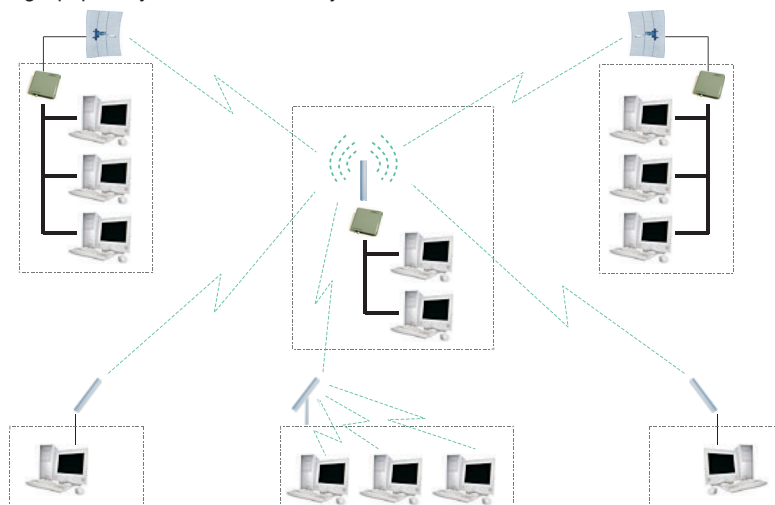
Hardware

Dimensions	220mm x 230mm x 44mm
Range of temperatures	-20 to +70°C
Humidity	10% to 85% of relative humidity
Weight	3.25 kg
Wired LAN connection	5 x Ethernet 10/100Base-T (RJ-45) Switch
Wireless LAN connection	1 PCMCIA slot
Wired LAN protocol	IEEE 802.11b
Power supply	220V/48V adapter, consequently by means of powerLAN power supply

Management

Configuration	Initial by the means of crossed-over Ethernet cable and web browser
Remote administration	By the means of web browser

Functionality

Provides	Connection to one WLAN520A for up to 40 WLAN510B
	Protocol Filtering for overbridged protocol
	11 Mbps, 5.5 Mbps, 2 Mbps and 1 Mbps data transfer
	Adaptive Dynamic Polling
	Data compression
	Transparent to VLAN tags
	MAC address table
	Access Point Roaming
	IP Routing (conforms to RIP 1)
	Shared Broadband Internet Access
	4-port Switching Hub
	DSL and Cable modem Support
	PPPoE and PPTP Support
	Fixed or Dynamic IP address
	Conferencing & Telephony Applications
	Special Internet Applications
	Virtual Servers
	URL Filter
	DMZ
	Internet Access Log
	VPN Support
	Standarts Compliant
	WEP Support
	Access Control
	DHCP Server
	Multi Segment LAN Support
	Password Protected Configuration
	NAT Protection
	Statefull Inspection Firewall
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Hardware

Dimensions	PCMCIA Typ II
Data transfer	11 Mbps, 5.5 Mbps, 2 Mbps a 1 Mbps
Transmission frequency	2.4000 - 2.4835 GHz
Modulation technique	Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK (Modulation technique))
Expansion	CCK 11-chip Barker sequence
Media Access Protocol	TurboCELL
Output power	8 dBm (ETS, FR) 15 dBm (FCC)
Number of alternative sub-channels	ETS-13 France-4 FCC-11
Aerial connector	Authorized connector - N/F

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