

XScale Voipac Outdoor WLAN

XScale Voipac WLAN provides complete solution for high-speed Point-to-MultiPoint and Point-to-Point network data connections within 2.4/5.8 GHz band. XScale Voipac Outdoor WLAN is based on OS LINUX, use Intel RISC 32bit processor and serves as Station Adapter, Access Point and Ad hoc.



WLAN Board + DIMM Module



Merger supplied with the board

XScale Voipac Outdoor WLAN is easy and quick to install. It is installed outdoor next to beam aerial.

Functions:

- Wireless IEEE802.11b (11Mbit), (optional 802.11a / 802.11g)
- Wireless LAN Access Point / Station Adapter / Ad-Hoc
- 2 modes - bridge and router
- OS LINUX
- Intel RISC 32bit processor PXA255
- 1 Ethernet port 10/100Mbit (RJ45)
- 1 PCMCIA slot
- PPPoE and PPTP Support
- Fixed or Dynamic IP address
- Packet's prioritization (voice, SSH, ...)
- Virtual LAN – IEEE 802.1Q
- VPN Support (IP Sec)
- WEP Support
- Access Control
- DHCP Server
- Password Configuration Protected
- NAT
- Statefull Inspection Firewall
- Radius support
- QoS (Shaping) + QoS for NAT
- Easy to install set up
- Power LAN 24V – power through Ethernet cable support
- Possibility to change WLAN PCMCIA card

WLAN board is based on OS LINUX from Debian distributor for INTEL xScale with kernel v2.4.19. It is possible to adapt the used software and applications by request of user or eventually to use one's own applications.

Microwave link based connection, operating in 2.4MHz /5.8GHz free band is suitable for areas, where there is no possibility or too 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 15km far from each other should be connected.

xScale Voipac Outdoor WLAN 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 cable is applied. Such a design allows us to extend distance between Outdoor WLAN and network device (e.g. firewall, switch) up to 100 meters.

POWERED BY
Linux

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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 15km (depends on the used PCMCIA card)
- Sophisticated dynamic algorithm that minimizes frequency interference at a transmission.
- 10/100 Base T Ethernet interface allows integration of both 10 and 100Mb/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 it easy to add WLAN components to the existed wired networks.
- Remote software upgrade and WLAN configuration from any nod within the network.
- Unit's ability of independent restart, within a short time period at immediate loss of signal, or heavy interference, an instant establishment of a new AP connection.
- It is possible to use different variants of software for the WLAN hardware

Environmental info:

Range of operating temperature

-20 to 70°C (in special housing)

Humidity

10% to 80% of relative humidity

Dimensions

140mm x 130mm x 19mm

Weight

0.350kg

Management:

Configuration

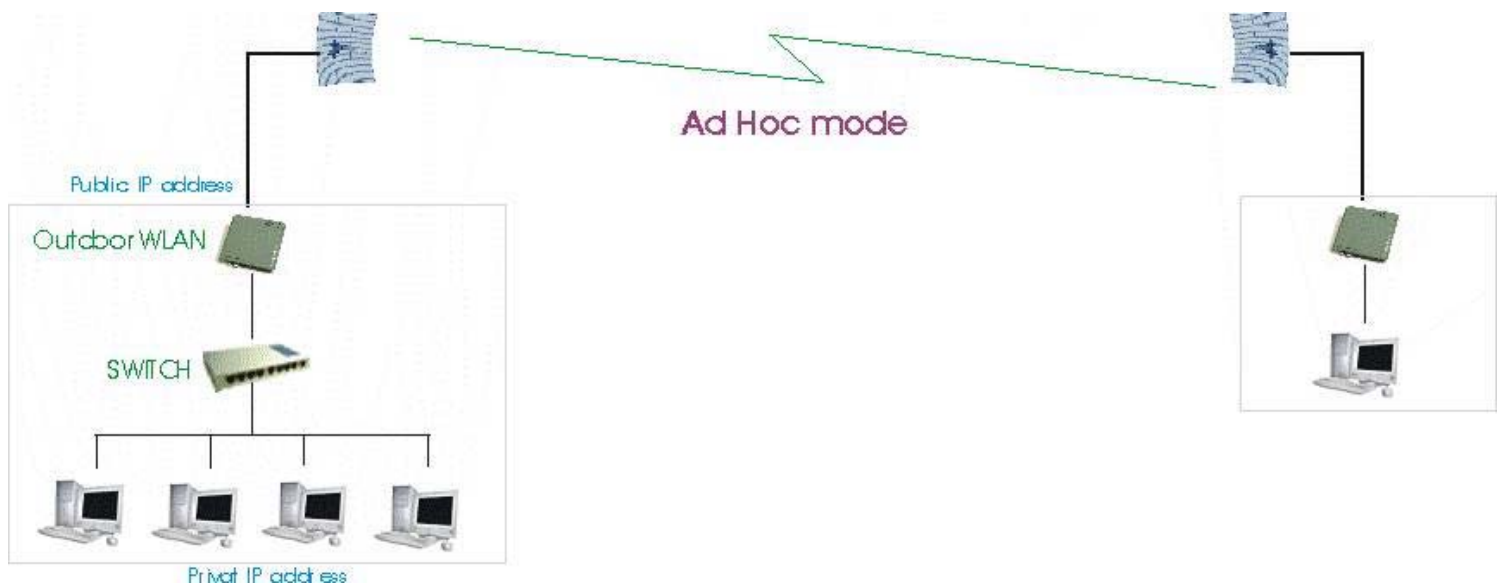
Initial by the means of crossed-over Ethernet cable and web browser

Remote administration

By the means of web browser

Management

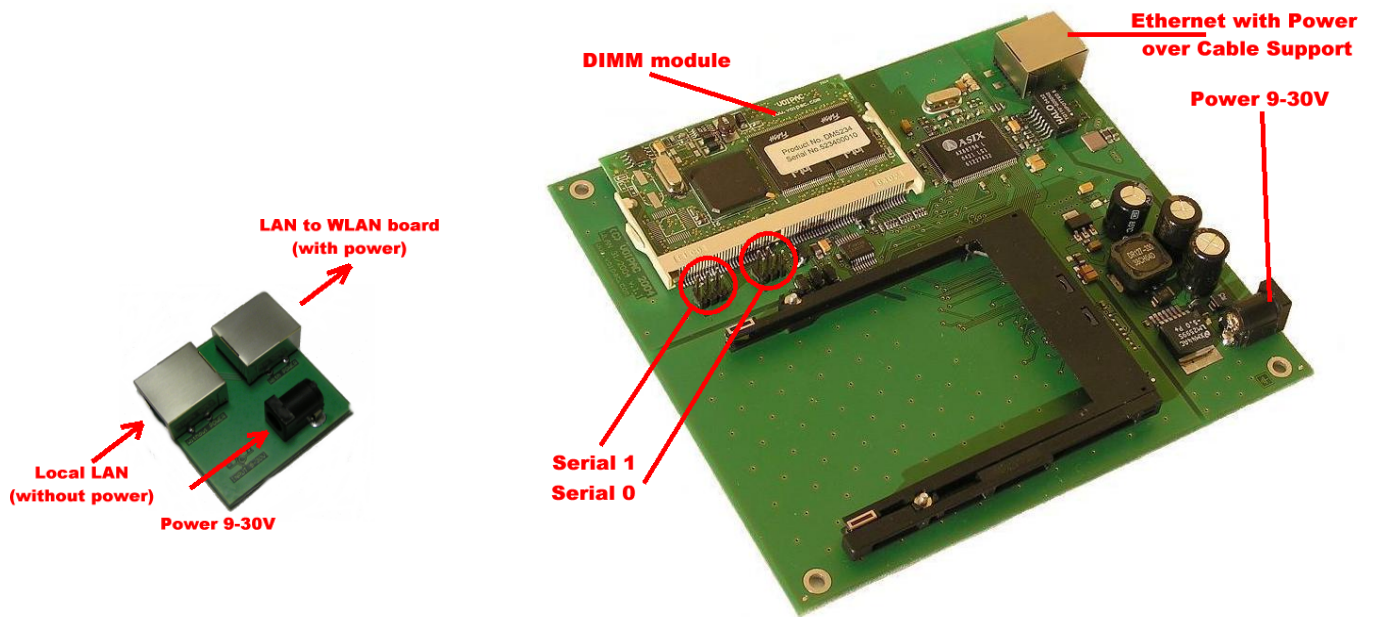
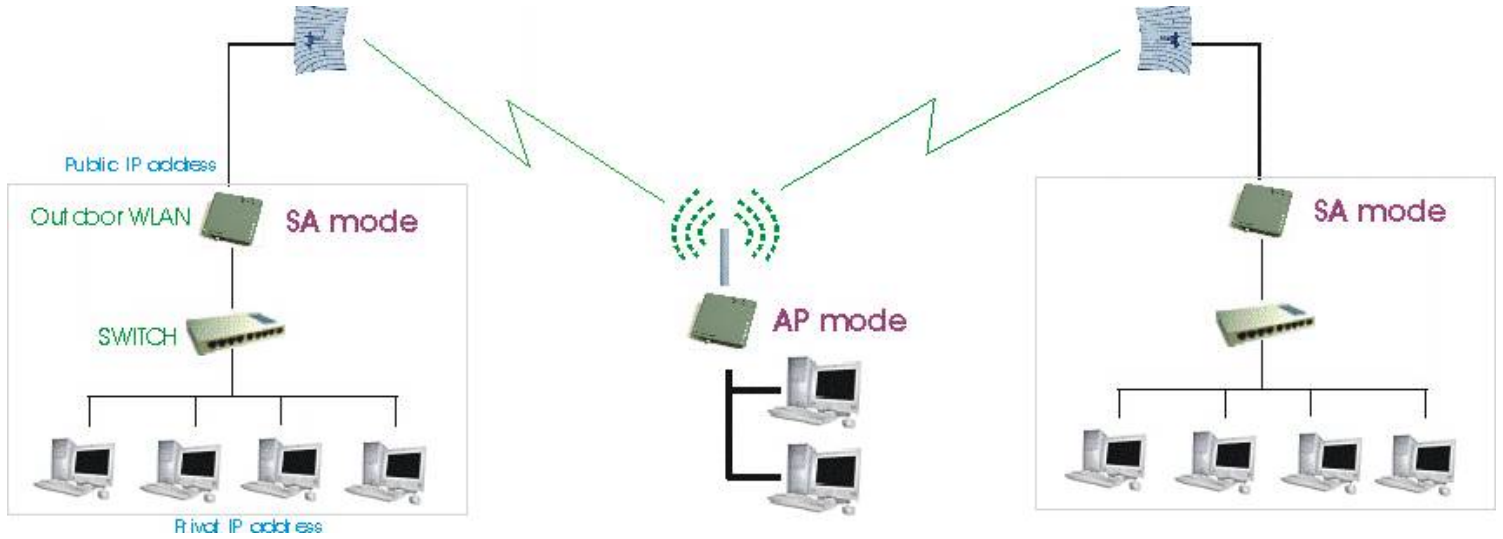
SSH or serial console



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