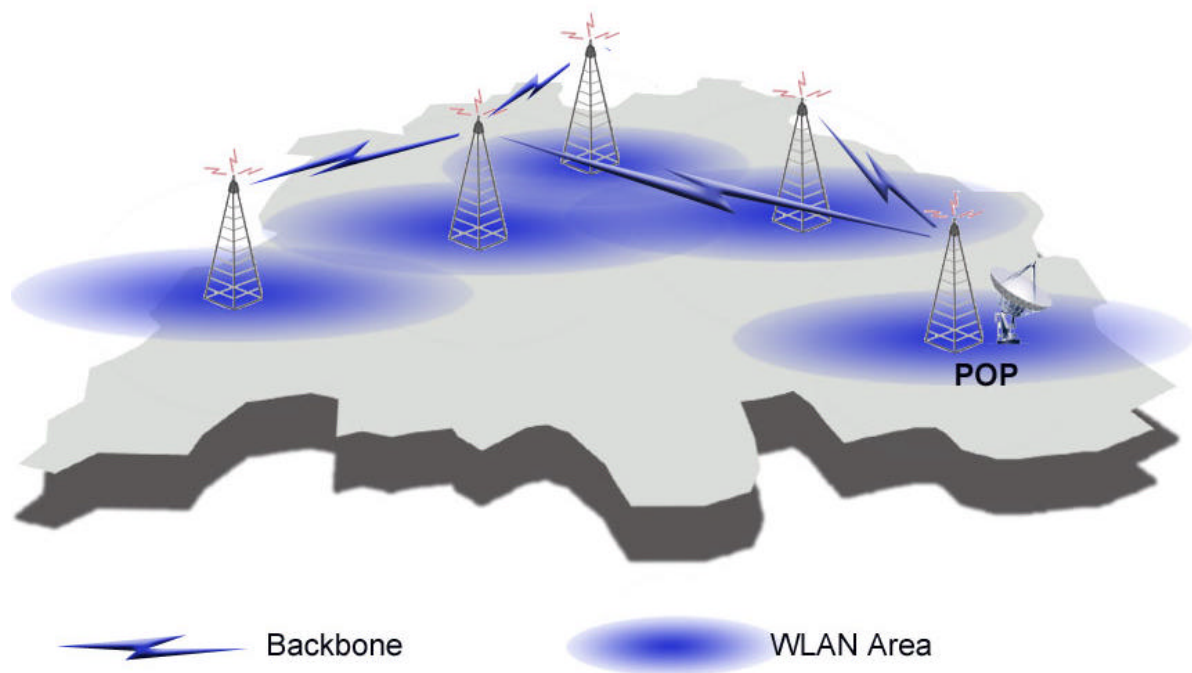


## Wireless Internet Access - WLAN Base Station III

WLAN Base Station III is the perfect product for wireless Internet access within urban areas. The integrated router and simultaneous use of two radio boards in 2.4 or 5 GHz frequency range following 802.11a/b/g/h in one Outdoor Unit are ideal preconditions for operation WLAN radio networks connected to the Internet.

WLAN Base Station III are cascadable and enable installation of area-wide point-to-multipoint access networks with a cost effective point-to-point backbone. Features like encrypted data communication, firewall functionality and bandwidth on demand make it suitable for ISPs to overcome the last mile limitations and to connect private and business clients to their point of presence.



The rugged Outdoor Unit (ODU) can be equipped with two radio modules – e.g. one 2.4 GHz module for WLAN cell and one 5.5 GHz module for the point-to-point backbone connectivity, ODU power supply via Ethernet cable allow quick, easy and trouble free on site installation. Furthermore the power over Ethernet feature allows installation of the ODU nearby the antenna and therefore limits the losses between RF module and antenna.

The Indoor Unit provides Ethernet interface for connection to Internet backbone, LAN or PC and supplies power for the outdoor unit.

WLAN Base Station III can be used as access point or as subscriber terminal (e.g. for business clients). The integrated DHCP server, firewall with NAT allow easy configuration of the connected subscriber LAN / PC and secure connection to the Internet. Up to 250 subscribers can be connected to one WLAN Base Station II (access point).

The integrated accounting system enables operator provision of prepaid services for anybody, no matter if it is a business client or private client. Required is a server with the optional Access Gateway software solution. The server can be installed inside or outside the WLAN network.

## Technical Data



Base Station	Integrated WLAN Access Point incl. 48V power supply, router, radio module following 802.11 a/b/g/h
Frequency Range	2.4 GHz ISM, 5.5. – 5.8 GHz
Protocol	IEEE 802.11a, 802.11b, 802.11g, 802.11h
Data Rate	Up to 108 mbps per sector
Transmit Power	100 mW (up to 200 mW)
Subscriber Interface	Ethernet, RS232
Interoperability	Wi-Fi (WEAC) certified products (AP, PC cards, etc)
Dimensions ODU	175 x 120 x 55 mm – 0,65 kg 290 x 195 x 110 mm – 1.30 kg
Power Supply	Power over Ethernet, 20W
Temperature	- 33 ... + 60 °C
Protection class	IP53
Operation System	Embedded Linux
Processor	133 MHz National SC520
Memory	64 mB Flash
Software features	IP based bandwidth assignment, firewall, static routes, static and dynamic NAT, Quality Monitoring, Monitoring signal / noise ratio per WLAN client, MAC address control, Rx / TX statistics for Ethernet and radio interface, Telnet, RIPv. 1-service, static and dynamic DHCP, DHCP proxy, SSH v.2 for remote configuration, IPSEC/OPENVPN, proxy for http- and ftp caching, recursive DNS server, Radius AAA
Rec. antennas 2.4 GHz	Omni 12dBi, 24 ° 16dBi, Yagi 14dBi, Parabolic 24dBi
Rec. antennas 5 Ghz	12° 24dBi, Omni 10dBi

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