

WILIBOX Outdoor Access Point WAP-710



WILIBOX Outdoor Access Point WAP-710 is a high performance network element for fixed wireless access networks and Wi-Fi public access (hotspot) infrastructures. This particular device is equipped with dual wireless and dual LAN interfaces, which allow forming of multi sector wireless base stations. High power radio interfaces are increasing the wireless coverage and reducing the number of required base stations. WAP-710 is driven by powerful and highly functional WILI-S networking software with centralized management option using WILIBOX RCMS centralized management system. For more information on software functionality please refer to corresponding data sheets.

WAP-710 is deployed and used in real telecom operator production networks.

Physical specifications

Wireless

Wireless standards and modulation	IEEE 802.11a/g (OFDM)
Wireless frequency range	2.4-2.5 GHz and 4.90 - 5.8GHz *depends on country regulations
Data rates	802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps
Output Power at antenna connector	0-26 dBm Adjustable (*depends on country regulations)
Sensitivity	-93 dBm @ 1Mbps - -70 dBm at 54 Mbps
Antenna	2 x external N type female connectors
Typical range	5-20 km
Throughput	20 Mbit/s – 4 km, 17 Mbit/s – 20 km

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Hardware

Interface	2 x LAN 10/100 BaseT Mbps RJ-45 2 x WLAN 802.11a with N type female connectors 1 serial port RS-232 RJ-11
LEDs	1 WAN
Environmental specifications	IP 65
Operating temperature	-40 to +55C
Humidity	10-90% relative non-condensing humidity
Power consumption	15W max
Power supply	Power over Ethernet with inserter 48VDC
Mount options	Mast mountable
Dimensions	243mm x 352mm x 43mm (W x H x D)
Weight	1,2 kg

Software highlights

Management

WEB management via HTTPS
Command line management via SSH, Telnet
Configuration file upload via HTTPS and FTP
RCMS configuration, firmware management and status reporting agent with NAT/ Firewall traversal functionality
Subnet or VLAN for management traffic
Management access control list
Administrator authentication via RADIUS or TACACS
SNMP V1/2/3
SNMP Traps
Supported MIB's: 802.11, 802.1x, MBII, RADIUS authentication, RADIUS accounting
SYSLOG support including remote servers and debug levels
Automatic configuration and provisioning with WILIBOX RCMS

Networking

VLAN tagging, up to 4096 VLAN tags, VLAN pass-through
Large frame support 1600 bytes
Bridging, shaping tree protocol (STP)
IP routing
DHCP server, client, relay
DNS relay, proxy
NTP and internal clock support

Per VLAN, IP tunnel or physical interface networking settings
802.1x authenticator
802.1x supplicant
MAC filtering per interface
IP filtering per interface
Stateful inspection firewall
Multiple GRE tunnels
NAT/NAPT/IP masquerading interface

Wireless Security

WPA/WPA2 personal and enterprise (with dynamic key from remote RADIUS server) TKIP, AES (CCMP)
Secure WDS mode, WDS inter access point traffic is secured by
WPA/WPA2 in personal or enterprise modes
Static and dynamic WEP
802.1x with EAP-MD5, EAP-TLS, EAP-PEAP, EAP-SIM, EAP-LEAP
Layer 2 intra access point client isolation
SSID broadcasting suppression
Static wireless
Access Control List
MAC address
Filtering