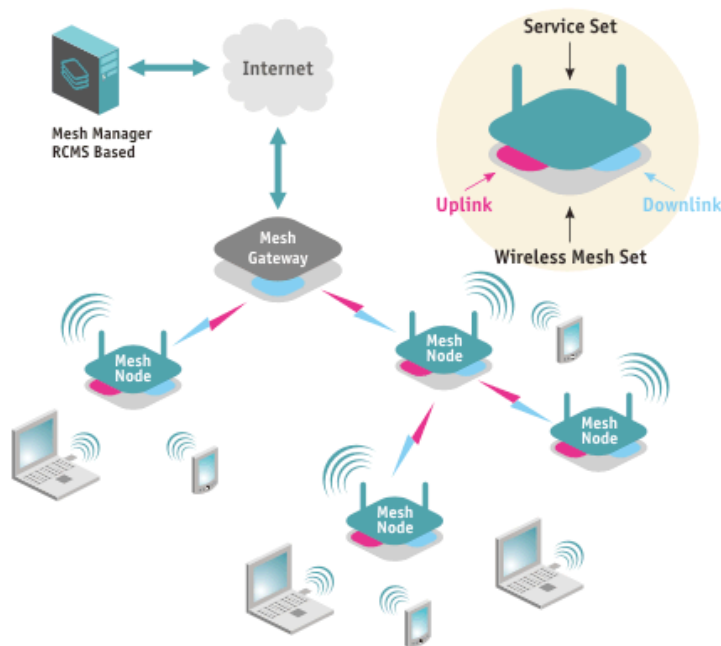


WILIBOX Outdoor Mesh Node WMN-720



WILIBOX Outdoor Mesh Node WMN-720 is designed for municipality wireless and telecom operator networks. Two out of four wireless network interfaces are dedicated for mesh backbone connectivity. This makes creation of high throughput Wi-Fi mesh structures with up to 10 wireless hops between nodes without sensible performance degradation possible. The other two wireless interfaces form dual radio 802.11 Access point for wireless access service provisioning. WMN-720 driven WILI MESH is a secure, QoS capable, portable Linux based OSI layer 2 wireless mesh networking software platform, which targets enterprise, campus, WISP networks covering significant areas with 802.11 wireless access.

Physical specifications

Wireless

Wireless standards and modulation	IEEE 802.11a (OFDM) IEEE 802.11b/g (DSSS; OFDM)
Wireless frequency range	4.90 - 5.85GHz 2.400 - 2.483GHz
Data rates	802.11g: 54, 48, 36, 24, 18, 12, 9, 6Mbps 802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps
Supported frequency bandwidths	40 MHz (Turbo), 20 MHz, 10 MHz (Half rate), 5 MHz (Quarter rate)
Output Power at antenna connector	0-26 dBm Adjustable max. TX power 26 dBm (IEEE 802.11g) 26 dBm (IEEE 802.11a)
Sensitivity	-93 dBm @ 6Mbps (802.11a), -74 dBm @ 54Mbps (802.11a), -99 dBm @ 1Mbps (IEEE 802.11b), -90 dBm @ 11Mbps (IEEE 802.11b), -93 dBm @ 6 Mbps (IEEE 802.11g), -75 dBm @ 54 Mbps (IEEE 802.11g)
Antenna	4x dual band 5,5dBi

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Hardware

Interface	1 LAN 10/100BaseT Mbps RJ-45 4x WLAN 802.11a/b/g
Environmental specifications	IP 65, -40 to +55C
Humidity	10-90% relative non-condensing humidity
Power consumption	20W max
Power supply	Power over Ethernet with inserter 48VDC
Mount options	Mast mountable
Dimensions	243mm x 352mm x 43mm (W x H x O)
Weight	1,4 kg
Warranty	1 year

Software highlights

- OSI layer 2 wireless mesh, auto discovery and dynamic configuration of new network nodes
- Provides infrastructure for multiple branded wireless services with diverse security policies
- Wide range of supported hardware platforms starting from ordinary PC up to price effective wireless SoC's
- Wide range of supported hardware platforms starting from ordinary PC up to price effective wireless SoC's
- Support of economical single radio and multiple 802.11 radio modules for low latency, high bandwidth applications
- Industry standard WPA2 (AES) protocol provides security for intra-mesh traffic
- Preservation of 802.1Q and 802.1P tags in intra-mesh transport
- 802.11e wireless QoS support for services and intra-mesh data transfers
- Platform independent graphical mesh monitoring software
- Remote Configuration Management System (RCMS) support

