

## LW900 - Product Overview

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The LW900 Outdoor Access Point gives you all the security and manageability that is required by high performance wireless networks. An embedded user friendly web interface based on Linux enables the network administrators to manage and monitor the network professionally. It assures an easy configuration of LW900 and the creation of the wireless network from any web client.

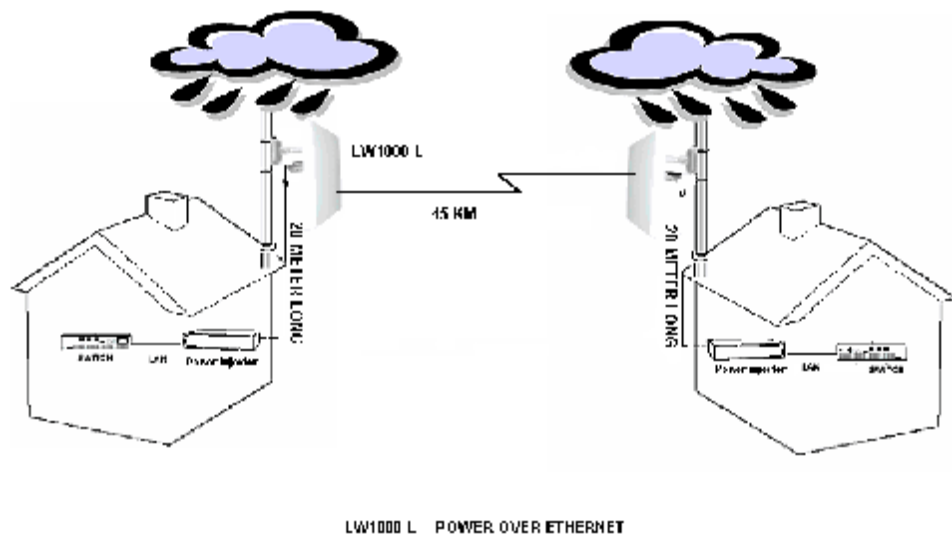
LW900 wireless Outdoor Access Point can be used to form PTP, PTMP or Mesh networks and covers a distance up to 30KM. The long wave allow it to work well in some Non-line of sight environments, where others APs might fail.

The weather resistance of the package cover allows the LW900 Access Point to be installed in exposed locations optimally even with very high temperature. The bridging and routing built-in capability, building LW900 based network does not require any extra bridges, routers or cables. The LW900 Outdoor Access Point complies with the IEEE 802.11g/b standard.

LW900 is able to cover a distance up to 30 km creating a reliable and scalable point to point/ point to multi-point wireless link. That allows providing a large coverage with carrier grade level redundancy to ensure service availability without any operator intervention. The distance between the LW900 and PC's, PDA's or Notebooks can be up to 3 km.

The solar battery covering the package enables the LW900 to work 24 hours without sun (optional).

Combining sophisticated wireless technology and advanced features, the LW900 is a reliable, high-performance solution for most of the demanding networking environments.



## KEY FEATURES & BENEFITS

- u Industrial IEEE 802.11g Standard Compliant
- u Outdoor Protection Package for Weather Resistance
- u Large Coverage and High Transmission Quality
  - Large distance coverage: up to 30km
  - Full bridging capability with minimum delay time less than 0.6 ms
  - Full routing capability

## LW900

54 Mbps Wireless Outdoor Access Point



### u Network Management

- User friendly web interface
- Built-in "I am Alive" feature to keep the service up and prevent service interruption
- Full DHCP server
- Remote Management
- Configurable to communicate to each other to create a wireless mesh

### u Security Protection

- Support of WEP up to 128 bit, WPA encryption ensuring the security of the wireless network
- Full NAT, Firewall with denial of service prevention
- Mac filtering

### u Power Over Solar Battery

- Access Point working 24 hours without sun (optional)
- Power over Ethernet: 100m built in.

### u Transmit Power Management

- by default: up to 600 mw adjustable

### u LW900-O Detachable Omni Antenna (Optional)

- Gain: 24 (AP) + 12 d Bi

### u Built in Panel Antenna

- Directional antenna
- Gain: 24 (AP) + 18 d Bi
- Strong coverage of angle band: H: 30°\* V: 28°
- Coverage distance point to point 30 km
- Coverage distance between antenna and PC, notebook & PDA's 3km max.

### u Support 4 channels 5-20MH wide each:

- Frequency: 907-912-917-922,5-10-20M Hz

## LW900

54 Mbps Wireless Outdoor Access Point



- u Operating Temperature -20°C to +60°C
- u Input Power: 100-240V 50-60HZ
- u Proprietary 900MHZ Standard
- u High sensitivity up to -96dBm
- u Support 1Mbps to 54MBPS base on signal quality
- u Compatibility to 3rd party Access Points, bridges, routers, DSL modems



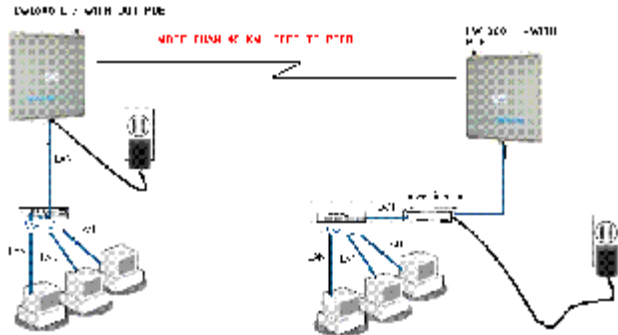
Directional Antenna  
LW900SE



Detachable Omni  
Antenna containing  
LW900-O

### Advanced Features highlights:

- Adaptive Modulation technique
- Support L1 Compression
- Support Fast Frames and bursting mode
- Advance Wireless fine tuning tools
- Work in Some Non-line of sight conditions
- Easy Web Interface
- Full Management control with S/N and Throughput
- Support Long distance mode at lower speed (1Mbps to 3Mbps) -105dBm sensitivity
- Security 64 and 128 bit encryptions
- Interconnect Up to 10 AP to AP in wireless bridge mode
- Traffic Analyzer for debugging the network.



### LW 1000-L SERIES

#### Applications:

- PTMP connecting many long distance building.
- Non-line of sight Smaller distance coverage
- Connect to LW900SE base station

#### Package Contents:

LW900, POE, Connector, Ethernet Cable, Mounting kit, CD.

#### Related Products:

LW900CPE, LW900SE, LW900-O

#### Warranty:

Warranty One year international warranty

## SPECIFICATIONS

Standards Compliant	IEEE 802.11g/b
Radio Frequency	900 MHz
Transmission Rate	54 M bps
Security Systems	WEP, WPA, Mac filtering
WEP Key	64/128 bits
Channels Support	4 channels available
Access Point Interfaces	Wan / WLAN / LAN ( port)
Software Support	Linux based Network Management Tools; Firewall, Upgradeable Firmware; DHCP Server
Case	PVC, weather resistant, water proof, suitable for high temperature

## ENVIRONMENTAL REQUIREMENTS

Storage Temperature	-30°C to +70°C
Operating Temperature	-20°C to +60°C
Storage Humidity	5% to 92% non condensing
Operating humidity	10% to 87% non condensing

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