ISPAIR 54Mb 900MHz NLoS CPE

ISPAIR 54Mb 900MHz NLoS CPE are used to provide internet access to end-users using point-to-multipoint architecture at 54Mbps in 900MHz ISM unlicensed band. Wireless data links take place where there is no infrastructure for internet access or in places where bandwidth offered by current channels is too low. With our wireless equipment you can get high bandwidth on very long distances at a very reasonable price. Our equipment provides various features including Routing, Firewall NAT, DHCP, bandwidth control and many more.
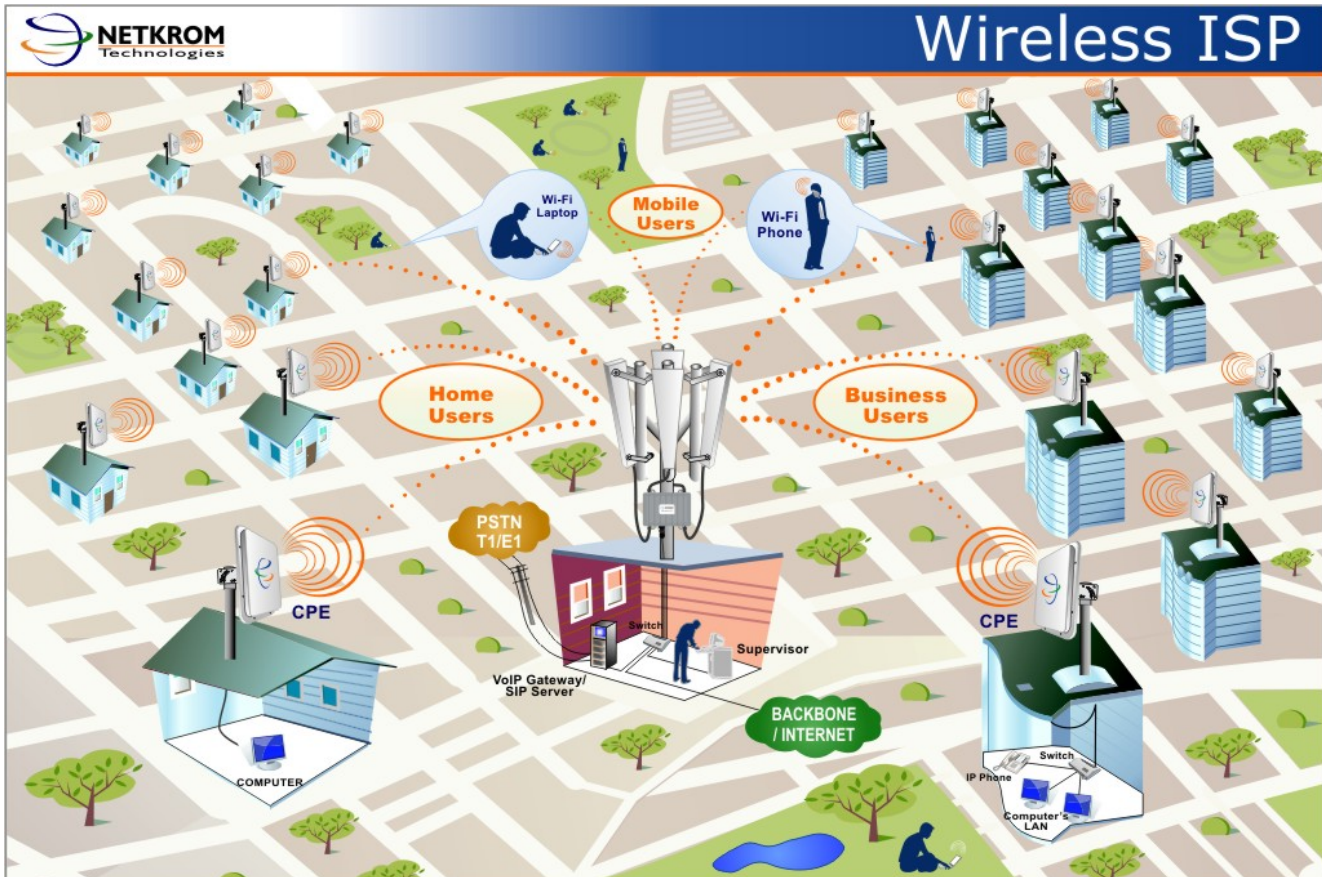
The Client CPE with Integrated Antenna is the most comprehensive wireless solution, which includes powerful wireless router with Power over Ethernet (PoE) feature, all embedded in high-gain directional antenna. Flat Panel Antenna offers wide territorial coverage with no signal waste and the Power over Ethernet injector provides the possibility to deliver both necessary power and data to your router (which is attached to the antennas) over a single Ethernet cable.

Features:

- Cost effective solution
- Complete Outdoor Weatherproof Solution
- All-in-One Wireless CPE device
- Integrated Power over Ethernet
- Web Management and SNMP support
- High-speed wireless data links (Up to 54Mbps)
- Connection distance up to 20 miles (32km)

- Firewall, NAT, IP Routing, DHCP
- Bandwidth control
- High level security with full 64/128Bit WEP Encryption
- Atheros XR Chipset - Advanced long-range features
- WDS - Wireless Distribution System
- Antenna Alignment and Wireless Site Survey
- Fast and simple installation for base station and Clients

Applications:

Specifications:

Model	ISP-CPE900
Ethernet Port	10/100Base-TX (RJ-45)
Operating Frequency / Channel	902 - 928MHz
Channel Bandwidth	5, 10 or 20 MHz (Selected by Software)
RF Modulation	DSSS (BPSK, QPSK, CCK) OFDM (BPSK,QPSK, 16-QAM, 64-QAM)
RF Output Power	28dBm at Radio 40dBm at EIRP
Sensitivity	-91dBm@6Mb -74dBm@54Mb
Data Rate	54, 48, 36, 24, 18, 12, 11, 5.5, 2, 1Mbps
RF Operation Mode	Access Point (you need upgradable, previous additional fee) Client
Range	20 miles (32 Km) LoS 5miles (8Km) NLoS
Data Security	Access Control List WEP 64/128 WPA1/WPA2 with TKIP & AES ciphers
Network Advanced Features	Transparent Bridging Layer 2 (Mac Address) Forwarding Layer 3 (IP Address) Forwarding Static Routing RIP v2 DHCP Server and Client PPPoE Client/PPTP Client Vlan (802.1Q) Support Advance Statistics Graphical User Interface Monitor Utils (Ping and Trace Route)
Link parameters	Antenna alignment and RSSI Signal levels Site Survey Radio and Ethernet Traffic Statistics
Management	Web and Netkrom NMS – Network Management System (Windows based)
Power	Power over Ethernet – PoE 802.3af (AC 110~220/DC 48V) with surge protector
Dimensions	18.5"x16.8"x2.5" in (470x 427x64mm)
Weight	6 Lb (2.7 Kg) complete set
Cable	50", 100", 150", or 200" length Outdoor CAT5E Rated Shielded Cable (Optional)
Humidity	-10-90%, (Operating)
Temperature	-40 to 167 Deg F (-40 to 75 Deg C)
Compliant	FCC Part 15 class B, CE Mark, ETSI 300 328
Antenna Characteristics	
Gain	12 dBi
Frequency Range	902 - 928MHz
3db Beam Angle (E-Plane)	50 Deg
3dB Beam Angle (H-Plane)	45 Deg
Polarization	Horizontal or Vertical

Ordering Information:

ISP-CPE900   ISPAIR 54Mb 900MHz NLOS CPE long range subscriber 20 miles - 32Km LOS and 5 miles - 8Km NLOS (PoE, Antenna, Radio and Router in one!)