

### ICRS-LD-4900



The ICRS-LD-4900 is a cost-effective point-to-point / point-to-multipoint solution for 4.9GHz public safety wireless deployment both for backhaul and "last mile".

ICRS-LD-4900 utilizes Time Division Duplex technology allowing operation on a single channel. The Ethernet products are primarily designed to provide standard Ethernet interface in a wireless link between distant sites.

Highly output power OFDM technology gives the ability for near-line of sight deployment, and the unique regatta mode can speed up the 54Mbps throughput to 25~35%.

ICRS-LD-4900 has powerful security management because it supports WEP 64/128/152 bits, 802.1x Authentication (EAP), MAC address filter, disable broadcast the SSID, client isolation and WPA-PSK WPA(TKIP)/WPA2(AES-128bits) encryption. All these functions make the network much more secure and reliable.

#### Product Features

##### Effective spectrum utility

This radio uses advanced technology to narrow the channel into smaller bandwidths than other wireless radios. There are software selectable channel bandwidths of 5, 10 and 20MHz.

##### Versatile Quality of Service / TDM Technique

TDM tech can avoid the packets collision and send the packets more efficient and stable to improve the quality of voice and data transmission. The download speed of the CPE radio can be set in fractional (nx64 Kbps).

##### Antenna diversity

There are two N-type connectors available for two antennas, customer can fix the antenna port or select the diversity mode.

##### High output power OFDM technology

The high output power OFDM technology provides best performance and long distance transmission.

##### Security – 802.11i

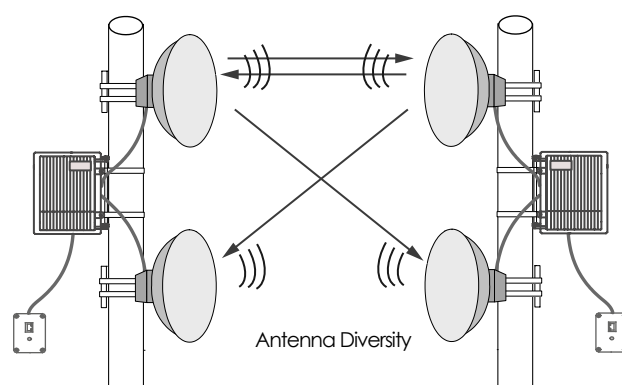
WEP 64 / 128 / 152 bits, WPA-PSK, 802.11i (WPA-TKIP encryption and WPA2 AES-128bits), 802.1x Authentication (EAP), MAC access control, disable broadcast the SSID, client isolation build the highest security mechanism to prevent the malicious attacking from the Internet.

##### Antenna Alignment (Audible antenna alignment for optional)

The site survey function provides the RSSI (signal strength) info to indicate the status of antenna alignment. Customer can order audible antenna alignment model for aligning the antenna by the headphone of your mp3 player, quite easy and simple.

#### Applications

- ◆ Long distances P-T-P or P-T-MP Bridge (CPE)
- ◆ Monitoring of remote systems
- ◆ Cost effective alternative to wired network environment
- ◆ Redundant link between buildings
- ◆ Home automation & building control
- ◆ Wireless Repeater
- ◆ Dedicated ISP connections for high-reliability subscribers
- ◆ Enterprises or Institutions LAN and PBX extension



## Specifications

### Radio Parameters

Frequency [MHz]	4910 - 4990MHz, Other frequency is available within 4800 - 6000MHz upon request
Channel Bandwidth	Software selectable channel bandwidths of 5MHz, 10MHz, 20MHz
Output Power	21dBm Max
Receive Sensitivity (BER 1Ex10 ) in a 5MHz channel	-72dBm ( $\pm$ 2ppm) @ QAM-64 -90dBm ( $\pm$ 2ppm) @ BPSK
Modulation	OFDM
Frequency Stability	$\pm$ 10ppm

### Interface

Ethernet	IEEE 802.3 (10Base-Tx) / IEEE 802.3u(100Base-Tx)
RF Port	2 ports N-Jack

### Security

Authentication	802.1x Auth.(EAP)
Data Encryption	64/128/152 bits encryption, WPA-PSK, 802.11i WPA-TKIP, WPA2(AES-128 bit)
Authorization	MAC Address Filter List
Other Security	Disable broadcast SSID, Wireless Client Security Separation

### Physical features

Dimensions (L)x(W)x(H)	259mm x 250mm x 75mm
Weight	1.8kg
Operating Temperature	-30° to +55°C
Storage Temperature	-40° to +70°C
Humidity	95% non-condensing
Power Supply	AC 100-240V, 50-60Hz; DC 24V or optional DC 48V(Optional Telecom Grade)

### Management

Management and Setup	Web based
SNMP agents	MIB II
Protocol	TCP/IP, IPX/SPX, NetBEUI
Operating System	Windows 98/2000/NT/XP
Network Architecture	PTP/PTMP
Bandwidth Management	Versatile Quality of Service
Base Station Scanning	RSSI
Other Features	VLAN, spanning tree protocol (802.1d)

**All technical data are subjected to change without notice.**