MERCURY SERIES Product Family Description Multi-function Wi-Fi Radio ISM Band Outdoor Solutions with external antenna.

MERCURY_PFD_ENB01W

Applications

- Enterprise / Campus Hotspot,
 Long distance P-T-P / P-T-MP
 (CPE) Bridge.
- Redundant link between buildings.
- Wireless Distribution System(WDS).
- Wireless Repeater.
- Dedicated ISP connections for high-reliability base stations and subscribers.
- Enterprises or Institutions LAN and PBX extension.
- Cost effective alternative to wired network environment.
- IP-68, enclosure rating for harsh environments.



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The Lanpro Mercury series provides large output power and high throughput options for ISM Band outdoor Wi-Fi radios. It operates at 2.4GHz and 5GHz unlicensed ISM band with OFDM/TDD technology and support 5 different operation modes – AP / Station / WDS(Bridge) / Repeater / Inter-building private LAN. That provides a turn-key solution for Hotspot, enterprise / campus connectivity, and PWLAN applications.

It's easier and more cost effective to deploy the wireless access environment with the Wireless Distribution System (WDS) technology. Saving $30\% \sim 50\%$ cost for telecom operators, ISPs and enterprises.

The Mercury series 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.



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Product Highlights

• Large area coverage

High output power for IEEE 802.11b/g and low noise figure extends signal transmit distance and enlarge the coverage area as well.

• High data rate at long distance

Break the distance limit of 802.11a/b/g standards. We succeeded in extending the signal up to 40 Km with the proper antenna.

Flexibility

This radio can play various roles in the wireless infrastructure, the customer can attach the proper antenna according to the application, and make the wireless infrastructure deployment more flexible.

• QoS - Wi-Fi Multi-media (WMM)

With this feature, the radio can support quality of service for prioritizing traffic from the Ethernet to the access point.

Security

WEP 64 / 128 / 152 bits, 802.1x Authentication (EAP), MAC access control, disable broadcast the SSID, client isolation, WPA-PSK, WPA-TKIP encryption and WPA2 (AES-128bits) build the highest security mechanism to prevent malicious attacks 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 the audible antenna alignment model, and just align the antenna with the sound heard through a headphone, like the one of your mp3 player, easy and simple.

Robust construction

Prepared for harsh environments, the IP-68 rating ensures long life operation.

В

Specifications

RADIO						
Model No.		LP-348	LP-349	LP-5A		
Standards		IEEE 802.11b/g	IEEE 802.11b/g	IEEE 802.11a		
Frecuency		2.4GHz	2.4GHz	5GHz		
OUTPUT POWER / RX SENSITIVITY (Packet Error rate :10%)						
64QAM (54Mbps)		26(±1.5) / -77 (dBm)	31(±1.5) / -79 (dBm)	20(±1.5) / -72(dBm)		
16QAM (36Mbps)		28(±1.5) / -85 (dBm)	33(±1.5) / -88 (dBm)	22(±1.5) / -78 (dBm)		
QPSK (18Mbps)		30(±1.5) / -90 (dBm)	34(±1.5) / -93 (dBm)	23(±1.5) / -84(dBm)		
BPSK (6Mbps)		30(±1.5) / -93 (dBm)	34(±1.5) / -96 (dBm)	23(±1.5) / -90(dBm)		
CCK(DSSS)		30(±1.5) / -93 (dBm)	34(±1.5) / -96 (dBm)	N/A		
Modulation	OFDM/ (DSSS)					
Duplex	TDD					
Frequency Stability	±10ppm					
Range		20Km	25Km	20Km		



INTERFACES							
RF		N-Jac	k				
Ethernet	IEEE 802.3(10 Base-T) / IEEE 802.3u(100 Base-Tx)						
RSSI (Receive Signal Strength Indication)							
Bridge Mode		Link Te	est				
Station Mode	Site Survey						
Antenna Alignment	Audible Antenna Alignment (beeper)						
MANAGEABILI	TY						
Management and setup	Web-based configuration						
Operating mode	AP / Station / WDS(Bridge) / Repeater / Inter-building private LAN						
Network Architecture	Hot spot / PTP Bridge / PTMP Bridge / Repeater						
Operating System	Windows 98 / 2000 / NT / XP						
SNMP agents	MIB II						
Protocol	TCP/IP, IPX/SPX, NetBEUI						
IP Routing	Enable anyIP						
QOS	Wi-Fi Multi-media / Uplink speed limit						
DHCP support	DHCP server / DHCP Client						
Other Features	VLAN / HTTP Re-direct / Virtual Servers / AP Channel Auto Selection / Station Fast Roaming / CPU Loading Monitor / Load Balance						
SECURITY							
Data Encryption	WEP (64/128/152 bits) / WPA-PSK / WPA-TKIP / WPA2 (AES 128bits)						
Authentication	802.1x Auth.(EAP)						
Authorization	MAC Access Control						
Advanced Security	Disable Broadcast SSID / Firewall / Wireless Client Security Seperation (Layer 2 Isolation)						
ENVIRONMEN [*]							
Operating Temperature		-0~55°C	-0~55°C	-30~55°C			
Storage Temperature		-30~70°C	-30~70°C	-30~70°C			
Humidity	95% non-condensing						
IP Enclosure rating	IP-68						
POWER							
Power Supply	AC 100-264V, DC 24 V, 50-60Hz						
PHYSICAL	PHYSICAL						
Dimension	259 (L) * 250 (W) *75 (H); mm						
Weight		2.2Kg	2.5Kg	1.8Kg			
WARRANTY							
Validity	2 Years						

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How to order

- LP-348 2.4 GHz 802.11 b/g ENTERPRISE LEVEL WISP OUTDOOR RADIO with WDS, IP-68 rated.
- LP-349 2.4 GHz 802.11 b/g ENTERPRISE LEVEL WISP OUTDOOR RADIO with WDS, IP-68 rated.
- **LP-5a** 5.8 GHz 5 GHz Band, 802.11a AP, IP-68 rated.