



# LibraPlus 5860

## High-Performance Outdoor Wireless



### High Performance Point-to-Point and Point-to-Multipoint in 5.x GHz

An advanced outdoor wireless Point-to-Point and Point-to-Multipoint platform, LibraPlus 5860 is built on more than a decade of OFDM experience.

Packaged in a rugged, all weather enclosure, the full-featured LibraPlus 5860 comes complete with integrated bridging and routing software and extensive network and polling management support.

With its high spectral efficiency, large capacity, user friendly GUI and rich feature-set, the LibraPlus 5860 is the ideal unlicensed wireless solution for rural and metropolitan broadband requirements.

### Features

- Point-to-Point and Point-to-Multipoint Topologies
- 5.x GHz Extended frequency range from 5.180 to 5.825 GHz
- 40 MHz Turbo-Mode Channel Size
- 5 & 10 MHz Narrow Band Channel Sizes
- OFDM technology provides NLOS coverage in urban environments
- EION Dynamic Polling (EDP)
- Up to 60 Mbps throughput in Point-to-Point Applications
- User Friendly Web-Based GUI
- SNMPv2 and enterprise MIB for advanced network management
- EPPS Technology for robust Point-to-Point Performance
- Integrated Antenna Model for Rapid Deployment and External Antenna Model for Extended Range
- High spectral efficiency and robust RF network design
- Rugged construction for all weather conditions (-35° C to +65° C)
- Built-in lightning protection
- Real Time RSSI alignment indicator
- Rich built-in networking features provide cost-effective solution

### Ordering Info

Model Name	Description	Item Number
LibraPlus 5860-28 RD	LibraPlus 5860 28 dBm RD (Rapid Deployment) Point-to-Point System, 5.180-5.825 GHz	9140-2820
LibraPlus 5860-28 ER	LibraPlus 5860 28 dBm ER (Extended Range) Point-to-Point System, 5.180-5.825 GHz	9140-2821
LibraPlus 5860-28 CPE	LibraPlus 5860 28 dBm CPE (Customer Premise Equipment) Point-to-Multipoint System, 5.180-5.825 GHz	9140-2802
LibraPlus 5860-28 AP	LibraPlus 5860 28 dBm AP (Access Point) Point-to-Multipoint System, 5.180-5.825 GHz	9140-2803
LibraPlus 5860-28 LCPE	LibraPlus 5860 28 dBm LCPE (Long Range CPE) Point-to-Multipoint System, 5.180-5.825 GHz	9140-2804



# Specifications – LibraPlus 5860 AP, CPE, LCPE, RD, ER

## Radio Specifications

Topology	RD, ER: Point-to-Point AP, CPE, LCPE: Point-to-Multipoint
Frequency*	5.180 to 5.320 GHz; 5.470 to 5.725 GHz; 5.500 to 5.700 GHz; 5.745 to 5.825 GHz
Channel Size*	Quarter: 5 MHz; Half: 10 MHz; Normal: 20 MHz; Turbo: 40 MHz
Channel Spacing*	Quarter: 5 MHz; Half: 10 MHz; Normal: 20 MHz; Turbo: 40 MHz
Modulation	OFDM: BPSK, QPSK, 16QAM, 64QAM
Antenna Gain	23 dBi (RD, CPE)
RF Connector	N-type female (ER, AP, LCPE)
Effective Bidirectional Point-to-Point Throughput	Normal: up to 31 Mbps (20 MHz Channel) Turbo: up to 60 Mbps (40 MHz Channel)
Output Power†	+28 dBm Maximum (configurable in GUI)
Duplexing Format	Half-Duplex

## Network Support

Medium Access Control	Proprietary MAC, EPPS (RD, ER), EDP (AP, CPE, LCPE)
Network Connection	10/100 Base T Auto-Negotiate
Operational Mode	Transparent Bridging, Multicast
WMM QoS	Yes, Voice and Video priority
Fast Frame Aggregation	ER, RD: Yes
VLAN Data Tagging/Untagging	Yes
VLAN 802.1q Transparency	Yes
VLAN Management	Yes

## Wireless Networking

Output Power Mgmt.	Yes, Manual or Automatic Transmit Power Control (ATPC), 802.11h
Data Rate Selection	Manual or Dynamic
MAC Filtering	Yes, via Black or White ACL Lists
Dynamic Frequency Selection (DFS)	Yes

## Security

Radio Access	Username and Password
Data Scrambling	WPA1, WPA2 (CCMP, TKIP) ER, RD: WEP (64,128,154)

## Management

Remote Management	GUI, SNMPv2
Management Access	Wireless & Wire
Software Upgrade	Over the Air, local

## Physical, Electrical & Environmental

Mounting Bracket	Yes, 2-Axis pole/wall	
Power Consumption	10 W	
Input Voltage	100/240V, 50/60 Hz AC	
Operating Temperature	-35° C to +65° C	
Environmental	RoHS and WEEE	
Enclosure	NEMA 4x; Designed to IP66	
Relative Humidity	0 to 100%, condensing	
Certifications	FCC Part B 15.109, ICES-003	
	FCC ID: XEC-LP5860-001	
	FCC Part 15.247, subpart C, 15.203, 15.207 (2007), 15.109, 15.407	
	ETSI EN 301 489-1, EN 301 893, EN 301 489-17 (EMC Wideband data and HIPERLAN) EN 50385-2002, EN 55022, EN 61000	
Lightning Protection	Safety: UL 60950 equivalent EN60950 (EU); Modular approvals (electrical)	
	Integrated, Telcordia GR-1089 compliant (Meets IEC 61000-4-2/ 4-4)	
Form-Factor	ER: Outdoor, rugged	RD: Outdoor, antenna integrated
Enclosure	Die-cast with metal cover	Die-cast with antenna housing
Dimensions	230 (w) x 65 (d) x 230 (h) mm	300 (w) x 90 (d) x 300 (h) mm
Weight	2.0 kg	2.3 kg

† Actual output power varies based on modulation, channel size and power settings.

\* Operational frequency and transmit power may be restricted by the vendor to meet regional regulations. The operator of this product must ensure compliance with the limits specified by local regulation prior to deployment.



320 March Road, Suite 500, Ottawa, ON, K2K 2E3, Canada  
Phone: +1 (613) 271-4400, Fax: +1 (613) 271-7040  
www.eionwireless.com

