

LIBRAPLUS 5860 HIGH-PERFORMANCE OUTDOOR WIRELESS





OVERVIEW

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

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.

TRUSTLINK ADVANTAGE

TrustLink™ technology ensures equitable distribution of traffic to all subscriber stations and uses intelligence to determine the number of polling cycles every user gets depending on the level of its activity. This way the network resources are not wasted during the polling of inactive users due to no user data transmission. TrustLink can be employed in both point-to-point and point-to-multipoint networks and dramatically reduces the effects of unwanted interference on the wireless link.

PRODUCT FEATURES

- Point-to-Point and Point-to-Multipoint Topologies
- 5.x GHz Extended frequency range
- 40 MHz Turbo-Mode Channel Size
- 20 MHz Normal Channel Size
- 5 & 10 MHz Narrow Band Channel Sizes
- OFDM technology provides NLOS coverage in urban environments
- EION TrustLink[™] Technology
- Up to 60 Mbps throughput in Point-to-Point Applications
- User Friendly Web-Based GUI
- SNMPv2 and enterprise MIB for advanced network management
- 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 +70° C)

Product Name	Product Description	Product Code
LibraPlus 5860-28 RD	RD (Rapid Deployment) Point-to-Point with integrated 23 dBi antenna	9140-2820-(M*/S*)
LibraPlus 5860-28 ER	ER (Extended Range) Point-to-Point with N-type antenna connector	9140-2821-(M*/S*)
LibraPlus 5860-28 CPE	CPE (Customer Premise Equipment) Point-to-Multipoint with integrated 23 dBi antenna	9140-2802
LibraPlus 5860-28 AP	AP (Access Point) Point-to-Multipoint with N-type antenna connector	9140-2803
LibraPlus 5860-28 LCPE	LCPE (Long Range CPE) Point-to-Multipoint with N-type antenna connector	9140-2804

* Master (-M) and Slave (-S) Point-to-Point Radios with TrustLink™ Technology MUST be ordered as a pair.

CE FC ROHS

DATASHEET

LibraPlus 5860

Radio	LibraPlus 5860 AP, CPE, LCPE, RD, ER
Topology	RD, ER: Point-to-Point; AP, CPE, LCPE: Point-to-Multipoint with Dynamic Polling
Frequency*	5.005 to 5.995 GHz
Channel Size*	Quarter: 5 MHz; Half: 10 MHz; Normal: 20 MHz; Turbo: 40 MHz
Channel Spacing	5 MHz × channel number for CF
Modulation	OFDM: BPSK, QPSK, 16QAM, 64QAM
Antenna	RD, CPE: 23 dBi flat panel antenna; ER, AP, LCPE: N-Type female RF connector
Physical Line Rate	100 Mbps
Effective Throughput	up to 60 Mbps
Dutput Power [†]	up to +28 dBm, Adjustable in 1 dB steps up to license key power limit
Duplexing Format	TDD, Half-Duplex
Network Support	
Vledium Access Control	Proprietary MAC, EPPS (RD, ER), TrustLink (AP, CPE, LCPE and –M and –S radios)
Network Connection	10/100 Base T Auto-Negotiate
Operational Mode	Transparent Bridging, Multicast
DoS	Uplink and Downlink Traffic Shaping per CPE (AP, CPE, LCPE); WMM: Voice and Video priority (RD, ER)
ast Frame Aggregation	Yes (RD, ER)
MAC Filtering	Yes, configurable black or white Access Control Lists
/LAN	Data Tagging/Untagging, 802.1q transparency, VLAN Management
ntra-sector Bridging	Yes
Vireless Networking	
Dutput Power Mgmt.	Yes, Manual or Automatic
Data Rate Selection	Manual or Dynamic
Security	
Radio Access	Username and Password
Data Scrambling	WPA1, WPA2 (CCMP, TKIP), WEP (64,128,154)
Management	
Remote Management	Web-GUI, SNMPv2 (Set, Get and Traps with proprietary MIB)
Management Access	Over the Air & Wired over prioritized ports
nstallation Management	RSSI Indicator, Wireless Link Monitoring, Audible Antenna Alignment Beeper, Built-in Spectrum Analyzer
Backup Configuration	Save Radio Configuration to local PC
Software Upgrade	Over the Air, local, Web-based upgrade, Dual bank to allow rollback
Physical, Electrical & Environme	ntal
Mounting Bracket	Yes, 2-Axis pole/wall
Power Consumption	Max 10 W
nput Voltage	100-240V, 50/60 Hz AC
Dperating Temperature	-35° C to +70° C
Environmental	RoHS and WEEE
Inclosure	Die Cast 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; Safety: UL 60950 equivalent EN60950 (EU); Modular approvals (electrical); RoHS
Lightning Protection	Integrated, Telcordia GR-1089 compliant (Meets IEC 61000-4-2/ 4-4)
Dimensions	AP, ER, LCPE: 230 × 230 × 65 mm; RD, CPE: 300 × 300 × 90 mm

† Maximum power output is set by country specific licensing key. The operator of this product must ensure compliance when selecting external antennas with the limits specified by local regulation prior to deployment * Frequency bands that are available to the operator are determined by country specific licensing key.

PulseSupply

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