

My ISP dreams of freedom...

# LIBRA 5800

What do you dream?



**Non-Line-Of-Sight (NLOS)**

**Proven Technology**

**W-OFDM powered**

**Robust integrated CPE**

**Up to 192 Mbps per cell**

**High spectral efficiency**

**Up to 66 km Point-to-Point  
range**

**Up to 35 km Point-to-Multipoint  
range**

Introducing Wi-LAN's LIBRA 5800, the newest member of the LIBRA family. For the first time ever, Wi-LAN has unleashed the power of non-line-of-sight (NLOS) into the unlicensed 5.8GHz ISM band. Libra 5800 provides field proven performance in an exceptionally easy to install package. W-OFDM powered technology, the foundation of the standards, ensures that Service Providers of all sizes can provide better service to more customers at a lower cost than traditional wireless solutions.

## **PROVEN**

LIBRA 5800 is part of the world's only 3<sup>rd</sup> Generation W-OFDM product line. The experience that comes from building networks in more than 30 countries is encapsulated in an attractive single piece integrated form factor. PDA support, Quick start menus make deployments a breeze. Proven NLOS coverage simplifies installation even further and can dramatically increase the customer base with no increase in cost

## **POWERFUL**

Wi-LAN understands the needs of your growing business, where revenue and profit must occur quickly, not further down the road. With a range of up to 66km(41 miles), combined with W-OFDM's superior NLOS capabilities, LIBRA 5800 gives you the power to reach previously inaccessible customers. Extended features like VLAN support enhances service revenues and contains costs, getting your network running smoothly as soon as possible.

## **FLEXIBLE**

Every network is different. Need a point-to-point link or a point-to-multipoint system? Integrated antenna or external? The choice is yours with LIBRA 5800. The only product to support 10 non-overlapping channels gives you the flexibility to build a robust and scalable network up to 192Mbps and support for over 12000 users per cell.

With proven, powerful, flexible technology, LIBRA 5800 is a true Wireless MAN product that sets the standard for NLOS deployments and delivers unparalleled capabilities that any business can use.



# SPECIFICATIONS

## Libra 5800 PP RD and ER

## Libra 5800 MP AP & LCPE/CPE

### Radio Specifications

Output Power	+17 dBm to -3 dBm, All Channels	+17 dBm to -3 dBm, All Channels
Frequency Range	5.725 to 5.850 GHz	5.725 to 5.850 GHz
Rx Sensitivity at 1E-06 BER	-84 dBm (BPSK) -81 dBm (QPSK) -75 dBm (16 QAM)	-84 dBm (BPSK) -81 dBm (QPSK) -75 dBm (16 QAM)
Channel Size/Separation	10 MHz / 12.5 MHz	10 MHz / 12.5 MHz
Data Rate Raw/Effective	32/24 Mbps	32/24 Mbps
Integrated Antenna	23 dBi (RD only)	23 dBi (CPE only)
RF Connector	N Type (Female, ER only)	N Type (Female, AP/LCPE only)
Duplexing Format	TDD	TDD
Certification	FCC/IC/SRRC	FCC/IC/SRRC
Range	up to 66 km (41 miles)	up to 35 km (22 miles)

### Network Support

Network connection	10/100 Base T	10/100 Base T
VLAN (802.1q) Compliance	Yes	Yes
CIR/MBR	Yes	Yes

### Wireless Networking

Network Topologies	Point-to-Point	Point-to-Multipoint
RF Collision Management	Dynamic Polling with Dynamic Time Allocation	Dynamic Polling with Dynamic Time Allocation

### Security

Data Scrambling	Proprietary Phase Randomization	Proprietary Phase Randomization
Configuration Security	Password Protected	Password Protected

### Management

Remote Management	SNMP, TELNET	SNMP, TELNET
Management Port	RS-232 Serial Port	RS-232 Serial Port

### Physical

Power Consumption	Max 30 W	Max 30 W
Dimensions	RD: 30 x 9 x 30cm (12" x 3 1/2" x 12") ER: 23 x 6.5 x 23cm (9" x 2 1/2" x 9")	CPE: 30 x 9 x 30cm (12" x 3 1/2" x 12") AP/LCPE: 23 x 6.5 x 23cm (9" x 2 1/2" x 9")
Weight	RD: 2.5 kg (5.5lb) ER: 2.0 kg (4.4lb)	CPE: 2.5 kg (5.5lb) AP/LCPE: 2.0 kg (4.4lb)
Operation Temperature	-45°C to +50°C	-45°C to +50°C
Enclosure	Fully weather proof	Fully weather proof

Proven  
Proven



Powerful  
Powerful



Flexible  
Flexible



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