

Wireless Freedom :D

LIBRA 3000



Non-Line-Of-Sight (NLOS)

Proven in over 20 countries

W-OFDM powered

Robust integrated CPE

Up to 192 Mbps per cell

High spectral efficiency

40km Point-to-Point range

25km Point-to-Multipoint range

Wi-LAN's LIBRA 3000 unleashes the power of non-line-of-sight (NLOS) to fixed wireless access. Operating in the licensed 3.5 GHz frequency band, LIBRA provides scalable, field proven performance in a simple, easy to install package. W-OFDM powered technology ensures that Service Providers and Competitive Carriers can provide better service to more customers at a lower cost than traditional wireless solutions.

PROVEN

The world's first and only 3rd generation W-OFDM CPE is founded on the experience of network installations in over 20 countries. LIBRA's fully integrated form factor, complete with PDA support and quick start menus, makes deployment a breeze. Proven NLOS coverage simplifies installation even further and can dramatically boost 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 24 km combined with W-OFDM's superior NLOS capabilities, LIBRA 3000 gives you the power to reach previously inaccessible customers. Extended features like VLAN support, CIR/MBR, and over-the-air software upgrades enhances service revenues and contains costs, getting your network running smoothly as soon as possible.

FLEXIBLE

Some solutions start out offering customers a real broadband experience, but as more customers come online, quality of service degrades. LIBRA's cellular-based architecture gives you the flexibility to start with cells large or small depending on your needs and deployment strategies. Data rates of up to 192 Mbps per cell and support for over 12000 users – with Libra, scaling up a successful business model couldn't be any easier.

With proven, powerful, flexible technology, LIBRA 3000 sets the standard for NLOS deployments and delivers unparalleled capabilities that any business can use.



SPECIFICATIONS

RF Unit	Access Point	CPE
Radio Specifications:		
Output Power (average/peak)	+22/+32 dBm	+17/+27 dBm
RF Frequency Band (Tx/Rx)	3500/3400 MHz to 3560/3460 MHz 3540/3440 MHz to 3600/3500 MHz	3400/3500 MHz to 3460/3560 MHz 3440/3540 MHz to 3500/3600 MHz
Channel Separation	3.5/7 MHz	3.5/7 MHz
Rx Sensitivity at 1E-06 BER (3.5/7 MHz)	-82 dBm/-80 dBm	-79 dBm/-77 dBm
RF Technology	W-OFDM (16 QAM, QPSK, BPSK)	W-OFDM (16 QAM, QPSK, BPSK)
Data Rate Raw/Effective (3.5 MHz)	9.6/6.5 Mbps	9.6/6.5 Mbps
Data Rate Raw/Effective (7 MHz)	16/12 Mbps	16/12 Mbps
IDU Connectors	IF: TNC	N/A
ODU Connectors	IF: TNC, RF: N Type	N Type/17 dBi integrated
Duplexing Format	FDD	FDD
Certification	ETSI, Others pending	ETSI, Others pending
Number of Remotes Supported per Access Point	Software limited to 2047	
Range	Point to Point: up to 40 km Point to Multipoint: up to 24 km	
Network Support:		
Network Connection	10/100 Base T	10/100 Base T
VLAN Compliance (802.1q)	Yes	Yes
Wireless Networking:		
Network Topologies	Point-to-Point and Point-to-Multipoint	
RF Collision Management	Dynamic Polling with Dynamic Time Allocation	
Security:		
Privacy	Proprietary Phase Randomization over RF Link	Proprietary Phase Randomization over RF Link
Configuration security	Password Protected	Password Protected
Management:		
Remote Management	SNMP, Telnet	SNMP, Telnet
Local Management Port	RS-232 Serial Port	RS-232 Serial Port
Miscellaneous:		
Power Consumption	60 W	20 W
Dimensions IDU (w/h/d)	38.5/33/9.2 cm	N/A
Dimensions ODU (w/h/d)	24/20/10 cm	30/30/8 cm
Weight	IDU: 3.5 kg ODU: 4.2 kg	Integrated: 3.6 kg Non-integrated: 3.0 kg
Operating Temperature	IDU: +5 to +40°C ODU: -45 to +45°C	ODU: -45 to +45°C

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Proven
Proven



Powerful
Powerful



Flexible
Flexible

