



Product
Portfolio

FibeAir[®] 2500

High Capacity Point to Multi-Point Solution

FibeAir 2500 series delivers up to 200Mbps aggregated traffic making it the ideal choice for last mile enterprise connectivity and high-end applications that demand assured performance with guaranteed bandwidth per subscriber

FibeAir 2500 sector base station delivers up to 200Mbps, providing the highest end user capacity in the market to best support voice, data and high resolution video applications. By delivering high capacity over a single radio unit, Ceragon saves valuable tower space, eases maintenance efforts and reduces total cost of ownership per Megabit. Offering a variety of powerful SUs, FibeAir 2500 enables service capacity of up to 50Mbps per SU.

FibeAir 2500 provides the highest spectrum efficiency available (5Bps/Hz) in the Sub 6GHz arena. This facilitates transmission of greater throughput over narrower channel bandwidth to reduce spectrum license fees and increase frequency planning flexibility.

FibeAir 2500 uniquely secures available bandwidth per end user for guaranteed SLA. This is achieved by preventing a Subscriber Unit (SU), suffering from inferior transmission performance, from reducing the capacity level of other SUs that share the same sector.



Superb performance in harsh Conditions

- Interference mitigation technology combined with OFDM, MIMO 2x2 and antenna diversity
- Robust performance in nLOS/NLOS deployments

Multi-Band Capabilities

- Support of an extensive range of frequency bands in the same unit (3.3-3.8GHz or 4.8-6GHz)

Low operational cost

- Power efficient and simple to maintain
- Built-in connectors, reduces inventory burdens and saves CapEx

TDD synchronization

- Prevents mutual interference and saves tower space

Configuration				
	Base Station (HBS)	Subscriber Unit (HSU)		
	FA2500-HBS-200/100	FA2500-HSU-50	FA2500-HSU-20	FA2500-HSU-10
Connectorized ODU	Supported	Supported	N/A	N/A
ODU with High gain integrated antenna– 23dbi	N/A	Supported	Supported	N/A
Connectorized ODU with Small Form Factor antenna- 15dbi	N/A	N/A	Supported	Supported
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100 m @ 10/100BaseT, 75 m @ 1000BaseT			
Radio				
Max net aggregate capacity	100 Mbps@20MHz 200 Mbps@40MHz	50Mbps	20Mbps	10Mbps
Number of HSUs per HBS	Up to 16 SUs			
Range	Up to 40 km / 25 miles			
Frequency bands	Multiband Radio supporting 4.900 to 6.06GHz or Multiband 3.300-3.800GHz			
Channel Bandwidth	Configurable: 10, 20 , 40 MHz			
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)			
Adaptive Coding & Modulation	Supported			
Sector Bandwidth allocation	Configurable: Symmetric or Asymmetric			
DFS (FCC & ETSI)	Supported			
End to End Latency	Typical: 4msec to 10msec			
Diversity	Supported at HBS & HSU			
Spectrum Viewer	Supported at HBS & HSU			
Max Tx Power	25 dBm typical at HBS & HSU			
Duplex Technology	TDD			
Site Synchronization	Inter (HSS) & Intra (GPS) site synchronization (supporting FibeAir 2000/4800)			
Encryption	AES 128			
Safety/EMC	Compliance with FCC/IC/ETSI			
Interfaces				
Ethernet Interface	HBS: 10/100BaseT,1000BaseT HSU: 10/100BaseT			
Networking				
Sub convergence layer	Layer 2			
QoS	4 queues according to 802.1p and Diffserv			
VLAN	Supported 802.1Q, 802.1P, QinQ			
Management				
Management Application	User friendly EMS GUI			
Protocol	Local and Remote Telnet or SNMP management			
NMS Application	Network Management System (NMS)			

Ceragon Comprehensive Network Offering:



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