



Product
Portfolio

FibeAir[®] 2500

High-Capacity, Point-to-Multi-Point Solution

The FibeAir 2500 series delivers up to 250Mbps of aggregated traffic making it the ideal choice for last-mile enterprise connectivity and high-end networking applications that demand assured performance with guaranteed bandwidth per subscriber.

FibeAir 2500's sector base station delivers up to 250Mbps, providing the highest end-user capacity in the market to best support voice, data and high-resolution video applications. Delivering high capacity over a single radio unit, it saves valuable tower space, simplifies maintenance and reduces total cost of ownership per megabit. Offering a variety of powerful subscriber units (SUs), it enables service capacity of up to 100Mbps per SU.

FibeAir 2500 provides the highest spectrum efficiency available (5bps/Hz) in the sub-6GHz frequency range. It facilitates transmission of greater throughput over narrower channel bandwidth to reduce spectrum license fees and increase frequency-planning flexibility.

FibeAir 2500 secures available bandwidth per end user for guaranteed service levels. This unique capability is achieved by preventing any subscriber unit, experiencing inferior transmission performance, from reducing

- **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**
Extensive range of frequency bands (2.5GHz, 3.3-3.8GHz or 4.8-6GHz)
- **Low operational cost**
Power efficient and simple to maintain
Built-in connectors reducing inventory burdens and lowering CapEx
- **TDD synchronization**
Prevents mutual interference and saves tower space



FibeAir 2500 Product Family

FibeAir-2500 HBS

- Delivers up to 250 Mbps at 40MHz net aggregate throughput
- Max distance up to 40 km / 25 miles
- Supports external antennas of 60°, 90°, 120° at a sector
- Number of HSUs per HBS: Up to 64 subscriber units per sector
- Native Ethernet
- Asymmetric capacity; fixed or dynamic channel allocation
- Operates in nLOS and dense environments
- Telco-grade, with advanced OFDM & MIMO technologies
- VLAN capabilities: 802.1Q, 802.1P and QinQ tagging
- QoS capabilities:
 - Packet classification according to 802.1p & Diffserv
 - Dynamic scheduling according to air interface changes
- GBE support
- Low power consumption

FibeAir-2500 HSU

- High-capacity HSUs of 100, 50, 20, 10, 5 Mbps
- Native Ethernet
- Asymmetric capacity; fixed or dynamic channel allocation
- Operates in nLOS and dense environments
- Telco-grade, with advanced OFDM & MIMO technologies
- VLAN capabilities: 802.1Q, 802.1P and QinQ tagging
- QoS capabilities:
 - Packet classification according to 802.1p & Diffserv
 - Dynamic scheduling according to air interface changes
- Low power consumption
- Ultra-small outline with AC feeding and PoE out

Simplified network design & maintenance

- User-friendly EMS GUI & basic Web EMS
- FibeAir EMS with userfriendly GUI
- Local and remote Telnet or SNMP management

Ceragon Comprehensive Network Offering:



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