



Product
Portfolio

FibeAir[®] IP-10Q

High Density Wireless Packet Backhaul for Aggregation Networks

FibeAir IP-10Q is a high-density, wireless backhaul solution optimized for Ethernet & IP/MPLS aggregation networks. Featuring a modular design that supports four carriers in a single rack unit, FibeAir IP-10Q offers seamless scalability up to 4Gbps.

Ideal for mobile and converged aggregation networks, the FibeAir IP-10Q provides an ultra-high capacity, highly scalable and flexible packet backhaul solution for a variety of networks and migration scenarios. Designed to optimize total cost of ownership, the FibeAir IP-10Q features the industry's most advanced traffic optimization technology. Supporting capacities as high as 1Gbps per carrier, the solution hosts up to four carriers in a single rack unit.

FibeAir IP-10Q supports a variety of enhanced multi-carrier configurations including: 4+0/3+1, 2+2 and 2+0 East/West. Ideal for 3G and 4G/LTE mobile networks, the solution delivers enhanced synchronization performance. With its no single-point-of-failure (SPoF) design, this advanced solution guarantees the highest availability to meet strict service level requirements. Innovative technology provides the lowest latency for delay-sensitive applications with up to a 70% reduction in frame delay - in comparison with other solutions currently on the market.

Integrating seamlessly with any existing network topology, FibeAir IP-10Q allows easy upgrade of legacy, multi-carrier wireless systems to an all-IP architecture. Being a member of Ceragon's advanced FibeAir product family provide operators with added flexibility, allowing them to retain existing radio units, antennas and cabling.

High Density Packet Backhaul

- **Optimized for Ethernet & IP/MPLS Aggregation Networks**
High density, up to 4 carriers in a single unit
- **Highest Capacity and Spectral Efficiency**
Up to 4Gbps packet traffic
- **High Availability with Built-in Redundancy**
No Single-Point-of-Failure (No SPoF)
- **Seamless Swap/Replacement Path for Existing Install Base**
Optimized for migrating SDH/SONET aggregation to packet networks
- **Part of the FibeAir IP-10 family**
The advantages of the FibeAir IP-10 class in a high density modular design



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Key Features

Optimized multi-carrier configurations

- Featuring Ceragon's 'Multi-Carrier ABC' technology for seamless aggregation of up to 4 radio carriers with optimal spectrum utilization
- Supports various configurations including 1+0, 1+1, 2+0 East/West, 2+2, 3+0/2+1 and 4+0/3+1
- 'Full GE' multi-carrier native packet transport using 4+0 @ 28/30/40MHz or 3+0 @ 50/56MHz

Highest possible capacity and efficiency at any channel bandwidth

- Up to 1 Gbps of IP traffic on a single radio channel
- Built-in asymmetrical traffic delivery mode to enable higher download capacities in asymmetric scenarios
- Enhanced compression technology for capacity acceleration
- 28 MHz - 56 MHz (ETSI & FCC)
- XPIC enables channel reuse
- 6 GHz - 42 GHz coverage of licensed bands
- Hitless and errorless Adaptive Coding & Modulation (ACM) QPSK - 256 QAM
- Native Ethernet

Flexibility and Interoperability

- High radio density - Up to 4 carriers in 1 radio unit with built-in redundancy
- Seamless integration with existing network and easily upgradable from multi-carrier systems
- Complete integration with Ceragon ODU's (RFU-C, RFU-HP, RFU-A)

Simplified network design and maintenance - reducing CAPEX and OPEX

- Network topology and technology agnostic
- Network Management System (NMS) with full FCAPS including end-to-end Ethernet service management
- Integrated web-based Element Management System (EMS)

Flexible synchronization solution

- ITU-T G.8262 synchronous Ethernet with optimized performance
- 'Precision Time Protocol optimized transport' mechanism providing ultra-low and consistent PDV for IEEE-1588

Enables support for services with stringent SLA

- Comprehensive QoS mechanisms enabling differentiated services with SLA assurance
- Low latency and jitter with frame cut-through technology for delay sensitive traffic (VoIP, PWE3, etc.)

Ceragon Comprehensive Network Offering:



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