FibeAir® IP-20E
Compact All-Outdoor E-Band Node

FibeAir IP-20E is an integrated wireless node for E-band applications. It delivers ultra-high capacity for cost-effective small-cell aggregation and macro-site interconnection.

FibeAir IP-20E is a wireless virtual-fiber solution that provides capacity and security for demanding network applications in E-band. Whether the need is for small-cell backhaul, metro-network aggregation or any other E-Band transport application, ultra-high capacity FibeAir IP-20E delivers a cost-efficient, complete solution.

FibeAir IP-20E offers future-proof connectivity with networks that require full-duplex, gigabit Ethernet. It is scalable to 1Gbps of capacity making it the perfect solution for capacity-demanding network applications especially in growing and dynamic HetNets. FibeAir IP-20E provides capacity at a fraction of the cost of buried fiber alternatives and its dedicated wireless technology is much more economical than leasing high-capacity services over fiber.

As a member of the FibeAir IP-20 product series, IP-20E enjoys interoperability with all other IP-20 solutions. Network operators benefit from common features across their wireless networks like the CeraOS operating system which establishes a unified, simple-to-operate-and-manage approach for building, expanding and maintaining wireless backhaul. All members of the product series feature programmable network processors that bestow a long life of flexible, cost-effective operation.

Working in tandem with the FibeAir IP-20N multi-technology aggregation node, FibeAir IP-20E can be deployed in comprehensive backhaul and aggregation-point settings offering a cost-effective solution for small-cell backhaul and other E-band transport applications. This sort of deployment is especially appropriate for fast and efficient installation and long-term operation.

Wireless Virtual Fiber

- Ultra-high capacity
  - Full-duplex, 1Gbps radio capacity
  - Advanced wideband modem design and latest in-house RFIC technology
- Rapid deployment
  - Small form fit consumes less space and is perfect for wall and rooftop installations
  - Narrow beam with high reuse factor
  - All-outdoor and split-mount configurations
  - Attractive licensing schemes with light licensing
- Carrier-grade wireless solution
  - Integrated Carrier Ethernet switch, MEF CE 2.0-compliant
  - Comprehensive service and link OAM capabilities

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Key Features

Cost-effective, high data-rate solution, scalable and future-proof

- Full duplex, gigabit Ethernet, scalable to 1Gbps
- Capacity-boosting technologies including Header De-duplication
- Hitless and errorless Adaptive Bandwidth Coding and Modulation to cope with rain fades
- Channel bandwidth of 250MHz
- Integrated Carrier Ethernet switch and MEF CE 2.0-compliant

Simplified network design and maintenance

- Fully interoperable with Ceragon's multi-technology aggregation node for macro sites and high-capacity, small-cell aggregation
- Full management support via Ceragon's Network Management System
- End-to-end service provisioning and management
- Advanced Hierarchical-QoS and prioritization
- Local and remote (in-band) management, CLI, SNMP or Web-based
- Comprehensive service and link-level OAM tools

Flexible synchronization solution

- ITU-T G.8262 Synchronous Ethernet
- Timing-over-packet optimized transport

Carrier-grade design

- High level of integration - Ceragon's in-house SoC wideband modem and RFIC for high reliability, low power consumption and small form factor
- Ultra-low latency
- Multiple configurations - Split-mount RFU and all-outdoor
- Power - DC (48VDC), PoE
- Environmentally friendly in accordance with ETS EN 300 019
- Copper and optical GbE data interfaces

Ceragon Comprehensive Network Offering:

Product **Portfolio**   Network **Management**   Professional **Services**   Strategic **Partnerships**

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