FibeAir IP-10 E-Series

Wireless Packet Backhaul Solution

FibeAir IP-10 E-Series is an All-Packet, high capacity wireless backhaul solution. Combining advanced Ethernet networking functionality with best-in-class microwave radio performance, FibeAir IP-10 E- Series meets the capacity demand of 4G/LTE backhaul, with up to 2 Gbps per channel.

The advanced packet engine of the FibeAir IP-10 E-series offers unrivaled wireless transport capacities and is optimized for mobile internet and broadband services in an all-IP environment. Taking into account Quality of Experience (QoE), the FibeAir IP-10 E-Series is engineered to deliver up to 2Gbps of IP traffic per channel. The solution can utilize a breakthrough asymmetrical traffic delivery mode to enable higher download capacities in asymmetric scenarios.

Geared with powerful low delay traffic management, the FibeAir IP-10 E- Series helps generate more revenue at the lowest overall cost by offering operators better spectrum utilization, comprehensive synchronization solutions, and low power consumption.

With advanced end-to-end Ethernet service management and Operation Administration & Maintenance (OA&M) tools, the solution simplifies network design, reduces capital and operational expenditures - while improving overall network availability and supporting services with stringent SLA.

High Performance Packet Backhaul

- **More capacity**
  Up to 2 Gbps per channel
- **More quality of experience**
  Advanced traffic management tools
- **Simplified operations**
  Powerful service management tools
- **Reduced number of network elements**
  Integrated radio and networking functionality
- **Perfect fit for all-packet backhaul**
  Flexible synchronization and low latency

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Key Features

Highest possible capacity and efficiency at any channel bandwidth

- Up to 2 Gbps of IP traffic on a single radio channel
- Asymmetrical traffic delivery mode to enable higher download capacities in asymmetric scenarios.
- 5 MHz - 80 MHz (FCC and Industry Canada)
- 6 GHz - 38 GHz licensed bands
- Hitless and Errorless Adaptive Coding & Modulation (ACM) QPSK - 256 QAM
- Adaptive power and exceptionally high system gain
- Supports XPIC and diversity configurations
- Native Ethernet

Simplified network design and maintenance – reducing CAPEX and OPEX

- Integrated Carrier Ethernet switch
- Network Management System (NMS) with full FCAPS including end-to-end Ethernet service Management
- Integrated Web based Element Management System (EMS)
- Enhanced user access control for increased security
- Comprehensive Service OA&M tools

Flexible synchronization solution

- ITU-T G.8262 Synchronous Ethernet including optimized regenerator for point-to-point
- Precision-Timing-Protocol (e.g IEEE 1588-2008) Optimized Transport based on low and consistent PDV (Packet delay variation)

Enabling support for services with stringent SLA

- Full hardware / interface redundancy and network level resiliency
- Comprehensive QoS mechanisms enabling differentiated services with SLA assurance.
- Low latency and jitter with packet cut through mechanism
- MEF-9 and MEF-14 certified
- NEBS GR-1089-CORE and GR-63-CORE certified

Optimized for deployment today with higher capacity and for future mobile broadband

- Pay-as-you-grow concept
- Future capacity growth and additional functionality enabled with license keys and innovative stackable nodal solution using the same hardware

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