Product
Portfolio

FibeAir® IP-20GX

Multi-Radio Technology Extendable Edge Node

FibeAir IP-20GX is a hybrid and full packet, split-mount wireless backhaul solution for aggregation and edge nodes. Offering a wide range of new capabilities and a rich set of advanced Carrier Ethernet MEF 2.0 and TDM services, it addresses the diverse needs of mobile operators, ISPs, utilities, government and private networks.

Designed to meet the demand for high capacity and low latency, FibeAir IP-20GX delivers the high reliability and quality of experience which are crucial to the success of today's LTE/LTE-A networks.

Supporting any radio transport technology mix, IP-20GX offers unmatched functionality and performance in a compact form factor, improving operational efficiency.

FibeAir IP-20GX boosts performance in today's networks while providing a cost-effective path to future requirements such as MPLS-TP and SDN/OpenFlow standards.
Supporting multi-service TDM transport and a rich set of Carrier Ethernet MEF 2.0 advanced switching capabilities, the solution offers a wide range of new capabilities that address the diverse needs of mobile backhaul, ISPs, utilities, public safety, large enterprises and private networks.

With its modular configuration in a single rack-unit form factor, FibeAir IP-20GX enables a mixture of TDM and radio expansion interfaces on top of its built-in Ethernet, E1 and radio interfaces, providing the flexibility to address any aggregation and edge requirement.

Multi-Radio Technology Edge Node

- **Any radio transmission technology mix**
  Wireless multi-technology platform optimized for HetNets
- **Multi-gigabit radio capacity with high spectral efficiency**
  Ultra-high capacity over licensed and license-exempt frequency bands (6-86GHz)
- **Future-proof, scalable and modular**
  Up to 4 radio carriers in 1RU
- **Easy to install, highly reliable**
  Low footprint, quick and simple to set up
- **High service granularity enables rollout of new business models**
  Intelligent, service-centric management utilizing Hierarchical QoS (HQoS) and advanced OA&M capabilities
- **Common OS & software-defined engine simplify network modernization**
  Unified CeraOS powered by a programmable network processor, providing a single interface and single skill-set across the entire IP-20 platform
- **Universal slots**
  Universal expansion slots allowing node expansion with additional radio modem and data interface cards

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Key Features

Any radio transmission technology mix

- Backhaul for wide range of wireless solutions from 6GHz to 86 GHz
- Packet and/or TDM traffic transport
- E1/FE/GbE/STM-1 interfaces

Multi-gigabits radio capacity with high spectral efficiency

- QPSK-2048QAM with full range of hitless and errorless Adaptive Coding & Modulation (ACM)
- Capacity-boosting using innovative Header De-duplication

Easy to install, highly reliable

- Modular design, flexible planning
- Service Assurance for strict SLAs utilizing Hierarchical QoS (H-QoS)

High service granularity enables rollout of new business models

- Integrated Carrier Ethernet switching, MEF Carrier Ethernet 2.0-certified, MPLS-TP-ready
- Carrier-grade service resiliency (G.8032, MSTP)
- ITU-T Y.1731 performance management - MEF 35
- High resiliency to bursty LTE/LTE-A traffic using ultra-deep buffers

Common OS & software-defined engine simplify network modernization

- Powered by programmable networking processor, future-proofing CAPEX investment
- Unified operating system (CeraOS) across entire IP-20 platform
- Integrated synchronization solutions: Native/SyncE/IEEE1588
- MPLS-TP and SDN-ready

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