



Product
Portfolio

FibeAir® IP-20G

Multi-Radio Technology Edge Node

FibeAir IP-20G is a hybrid, split-mount hauling solution for edge and ring nodes. Supporting all common features of the IP-20 platform, it is powered by a programmable network processor and runs under Ceragon's CeraOS, the high-performance, internetworking operating system.

Network operators must ensure that their edge backhaul solutions provide high capacity and the optimal mix of functionality and performance while minimizing cost of ownership. With the rapid pace of technological advancement, solutions implemented today must be versatile and flexible to continue to deliver cost-effective performance evolve with the demands of tomorrow. Operators need to know that they can stay current with emerging standards without incurring the expenses of new hardware. Ceragon's new wireless, split-mount edge node, FibeAir IP-20G, is designed to meet all of these challenges.

FibeAir IP-20G boosts performance in today's networks while providing a cost-effective path to future network requirements. It offers full support for TDM services, as well as a rich set of advanced Carrier Ethernet services providing a wide range of new capabilities that address the diverse and evolving needs of mobile backhaul, ISPs, utilities, government and private networks.

FibeAir IP-20G's fixed-configuration, low power consumption solution is simple to install and maintain. Hosting the advanced features common across the IP-20 platform, it is a cost-effective, reliable, and high-capacity solution for backhauling edge and ring nodes

Multi-Radio Technology Edge Node

- **Any radio transmission technology mix**
Wireless multi-technology platform optimized for HetNets
- **Multi-gigabits radio capacity with high spectral efficiency**
Ultra-high capacity over licensed and license-exempt frequency bands (4-86GHz)
- **Easy to install, highly reliable**
Low footprint, fixed design, quick and simple to set up with reliable operation
- **High service granularity enables rollout of new business models**
Intelligent service-centric management utilizing Hierarchical QoS and advanced OA&M capabilities
- **Common OS & software-defined engine simplify network modernization**
Unified CeraOS across entire IP-20 platform
Powered by a programmable network processor

Key Features

Any radio transmission technology mix

- Backhaul for wide range of wireless solutions from 4GHz to 86 GHz
- Packet and/or TDM traffic transport
- E1/FE/GbE interfaces

Multi-gigabits radio capacity with high spectral efficiency

- QPSK–2048QAM with full range of hitless and errorless Adaptive Coding & Modulation (ACM)
- Up to 1Gbps radio throughput
- Capacity boosting using innovative Header De-duplication

Easy to install, highly reliable

- Fixed design, simple planning and installation
- Low power consumption with convection cooling
- High MTBF (low component count, no fans)

High service granularity enables rollout of new business models

- Service Assurance for strict SLAs utilizing Hierarchical QoS (H-QoS)
- Integrated Carrier Ethernet switching, MEF Carrier Ethernet 2.0 compliant, 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 the entire IP-20 platform
- Integrated synchronization solutions: Native/SyncE/IEEE1588
- MPLS-TP and SDN-ready

Ceragon Comprehensive Network Offering:

