Product
Portfolio

FibeAir® IP-20S

Compact All-Outdoor Node

FibeAir IP-20S is an all-outdoor backhaul solution for access sites. It runs under CeraOS, the high-performance, internetworking operating system, and supports all common features of the IP-20 platform in a compact, environmentally friendly architecture.

With the proliferation of all-outdoor sites, operators require a compact backhaul solution to 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 that can evolve with the demands of tomorrow. Operators need to know that their investment can cope with future standards and requirements. Ceragon's wireless, all-outdoor edge node, FibeAir IP-20S, is designed to meet all of the challenges.

FibeAir IP-20S boosts performance in today's networks while providing a cost-effective path to future network requirements. With an integrated programmable network processor, it offers a rich set of advanced Carrier Ethernet services providing a wide range of new capabilities that address the diverse and evolving needs of mobile operators, ISPs, utilities, government and private networks.

Compact, low power consuming FibeAir IP-20S is simple to install and maintain. Employing the common features of the IP-20 platform provided by CeraOS, the IP-20S is a cost-effective, reliable solution for the hauling of outdoor edge nodes.

Compact All-Outdoor Node

- **Single-core radio node**
  Integrated Ethernet switch, MEF Carrier Ethernet 2.0-compliant, MPLS-TP-ready
- **High radio capacity and spectral efficiency**
  Up to 2048QAM modulation
- **Multi-purpose platform, ideal for versatile deployment scenarios**
  Compact form-factor, easily deployed in urban and rural locations
- **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 FibeAir IP-20 platform
  Powered by a programmable network processor

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Key Features

Single-core radio node

- In-house developed chipset: baseband modem and RFIC
- Programmable network processor
- Compact all-outdoor form-factor
- Low power consumption

High radio capacity and spectral efficiency

- QPSK-2048QAM with full range of hitless and errorless Adaptive Coding & Modulation (ACM)
- Up to 0.5 Gbps radio throughput in licensed 6-42 GHz frequency bands
- Capacity-boosting using innovative Header De-duplication

Multi-purpose platform, ideal for versatile deployment scenarios

- For access, small cells and aggregation
- All-outdoor architecture
- Easy to deploy

High service granularity enables rollout of new business models

- Service assurance for strict SLAs utilizing Hierarchical QoS (H-QoS)
- 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 network processor future-proofing CAPEX investments
- Unified operating system (CeraOS) across the entire IP-20 platform
- Integrated synchronization solutions: Native/SyncE/ IEEE1588
- Integrated Carrier Ethernet switching, MEF Carrier Ethernet 2.0-compliant
- MPLS-TP and SDN-ready

Ceragon Comprehensive Network Offering:

Product **Portfolio**

Network **Management**

Professional **Services**

Strategic **Partnerships**

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ref: **FibeAir IP-20S_ETSI**, Rev 1.0