



# FibeAir IP-10 All-Indoor Compact

## An integrated long haul system

FibeAir IP-10 all-Indoor compact is an all-indoor wireless backhaul solution combining all radio components for 1+0/1+1/2+0 configurations and network functions in a single, compact casing. The compact solution allows for simple integration and maintenance and can be operated in any topology with modular systems providing full ring or chain node scalability.

Designed uniquely for the North American market, the FibeAir IP-10 all-Indoor compact allows operators to deploy high-capacity, long-haul microwave systems in locations where rack space and shelter real-estate are limited. This all-indoor system uniquely offers exceptionally high transmit power using channel bandwidths up to 40 MHz, delivering high capacity up to 370 Mbps per carrier.

Combining all the benefits and integrated networking functions of the FibeAir IP-10 family, this compact system is designed for total availability with 5 levels of protection including radio chain, network port, switch or cross connect module, service level and integral support for Ring Optimized STP or SNCP.

### High Performance, Cost Optimized

- **Simple integration and maintenance**  
Compact, integrated network and radio functions
- **Best utilization of spectrum assets**  
Highest system gain & spectral efficiency
- **Minimal inventory and training**  
Similar units may serve any topology or installation
- **Improved network uptime**  
Robust redundant design for increased resiliency
- **Risk-free solution**  
Smooth migration to all IP



## Key Features

Highest possible capacity and efficiency at any channel bandwidth

- Ethernet traffic: 45 - 370 Mbps (740 Mbps with XPIC)
- 6L, 6H, 7, 8, 11GHz licensed bands
- BW 10, 30, 40 MHz
- Standards: FCC Part 101, SRSP 306.4/307.7/310.7 (Available also in ETSI)
- Network interfaces: Up to 4 Gigabit ports (SFP or electrical), 10 Fast Ethernet electrical ports and 64xDS1s (or 32xDS1s and 2xOC-3s).
- Optional TDM traffic: Up to 84xDS1, 6xDS3 or 2xOC-3

Robust redundant design

- 5 levels of protection: radio chain, network port, switch or cross connect module, service level and integral support for Ring Optimized STP or SNCP

Advanced radio features

- NEBS compliant GR-1089-CORE, GR-63-CORE
- Highest system gain – from 112dB system gain at 6 GHz delivering 45 Mbps @ 10 MHz channel bandwidth to 92.5dB system at 11 GHz delivering 370 Mbps @ 40MHz channel bandwidth
- IF combining: Built-in unique 2 Rx modules enhances space diversity functionality using IF combining mechanism improving system gain by up to 3 dB
- Hitless and Errorless Adaptive Coding & Modulation (ACM) QPSK - 256 QAM
- Native Ethernet or Native<sup>2</sup> technology (native Ethernet and native TDM)

Simplified network design and maintenance – reducing Capex and Opex

- Fully MEF-9 and MEF-14 certified
- A simple expansion solution to cost effectively upgrade legacy radio systems capacity

Optimized for today's deployments without compromising on upgradeability

- Flexible synchronization solution including Synchronous Ethernet and timing-over-packet optimized transport
- Integrated Carrier Ethernet switching and TDM cross-connect
- Network Management System (NMS) with full FCAPS including End-to-End trails
- Integrated Web based element management system (EMS)
- Enhanced user access control for increased security
- Comprehensive Service OA&M tools

## Ceragon Comprehensive Network Offering:



## Ceragon Networks

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