Product Portfolio

FibeAir® 70

High-Capacity 70 GHz Backhaul Solution

FibeAir 70 is an all-outdoor wireless packet family of products features carrier grade, high capacity support for 71-76 GHz regulated E-Band. Designed with stringent wireless backhaul requirements in mind, FibeAir 70 seamlessly increases backhaul capacity, offering support for any topology including ring, mesh or asymmetrical broadband applications.

Increased demand for capacity in broadband and mobile networks requires low-cost high capacity solutions while spectrum shortage, power and cost limit wireless backhaul growth. Ceragon FibeAir 70 family of products answers the need for, power efficient high capacity millimeter radio while providing rich networking functionality in a compact, easy to install and maintain form factor. With built-in ring protection, FibeAir 70 supports any topology whether it be simple point-to-point, daisy-chain, ring or and mesh configurations. FibeAir Advanced OA&M features accompanied with Ceragon PolyView Network Management Systems (NMS) enables seamless integration into any carrier grade network.

The FibeAir 70 robust yet compact design features Adaptive Modulation and Coding to enable operators to maintain, prioritize, and verify service level in all weather conditions, and achieve maximum link availability. FibeAir 70 ultra high capacity offers a low Total Cost of Ownership (TCO) solution leveraging the untapped 70 GHz spectrum to alleviate bandwidth bottlenecks in any next generation networks

Highest Economic Value

- **Broadband backhaul optimized performance**
  Up to 1.2 Gbps aggregated throughput
- **Reliable transmission**
  Adaptive Bandwidth, Coding and Modulation and Ethernet protection
- **Seamless integration**
  All-packet, with advanced Ethernet functions and OA&M tools
- **Instant link setup**
  All outdoor, small form factor and small antenna footprint
- **Low operational cost**
  Fully managed, Power efficient, with Power-over-Ethernet

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Key Features

Highest capacity and efficiency

- Up to 1,200 Mbps aggregate
- Up to 2,500 meters (Depending on the rain zone)
- 71 – 76 (GHz) According to CEPT/ETSI regulations or FCC Rules
- Hitless and Errorless Adaptive Bandwidth Coding & Modulation (64 QAM to QPSK)
- Channel bandwidth from 250, 500 Mhz (adaptive from 500 MHz to 125 MHz or from 250 MHz to 62.5 MHz)
- Adaptive FEC coding rates from rate 4/5 to rate 1/8

Simplified network design and maintenance – reducing Capex and Opex

- Integrated Carrier Ethernet switch
- Network Management System (NMS) - PolyView
- Local and Remote (In-Band), CLI, SNMP or web based
- Comprehensive OA&M tools – Service and link level(802.3ah / 802.1ag / y.1731)

Flexible synchronization solution

- ITU-T G.8262 Synchronous Ethernet
- Timing-over-packet optimized transport

Enabling support for services with stringent SLA

- Provider Bridge (802.1ad)
- Quality of Service (QoS) and prioritization (802.1Q)
- Resiliency – MSTP, G.8032 (Ethernet Ring Protection), G.8031 (Ethernet Linear Protection),
- Link aggregation – 802.3ad

Carrier grade design

- Power - DC and Power over Ethernet (PoE)
- Environmental - According to EN 300 019
- Data Interfaces - 10/100/1000BaseX Copper and Optical
- All SMT chip based solution for high reliability, low power consumption and small form factor

Ceragon Comprehensive Network Offering:

Product Portfolio

Network Management

Professional Services

Strategic Partnerships

ref: FibeAir 70, Feb 2011

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