



FibeAir[®] 4800

Fast Ethernet & nxDS1 License Exempt Radio

FibeAir 4800 family is Ceragon's sub-6GHz unique offering. It offers an extremely robust combination of DS1s & Ethernet, carrier-class solution for the unlicensed bands.



- High data rate up to 48 Mbps
- Frequency bands 2.3GHz - 6GHz (2.4Ghz - 5.8Ghz)
- 5 MHz, 10 MHz and 20 MHz channel BW support
- Fast Ethernet and nxDS1 interfaces
- Operational range of up to 50 miles
- Dynamic frequency scanning and transmit power control
- Adaptive modulation
- Supporting multiple point to point, up to 16 co-located units

Fast Ethernet & nxDS1 License Exempt Radio



Introducing FibeAir® 4800

FibeAir 4800 product family is a carrier-class, low cost point-to-point wireless broadband system. It operates in the license-exempt 2.3GHz - 6GHz (2.4GHz - 5.8GHz) bands and is suitable for service providers and enterprises that require immediate deployment and quick return on investment.

System Overview

FibeAir 4800 product family carries Fast Ethernet and TDM services over sub 6GHz bands, effectively connecting voice and data over a single link. The system ensures low BER, as well as low latency and full compliance with DS1 interface jitter and wander requirements. FibeAir 4800 enables direct connection of existing equipment, such as LANs and PBX systems, thus eliminating the need for additional external equipment. FibeAir 4800 product family is a splitmount system consisting of an IDU, ODU and antenna on each side of the link. Two types of IDUs are available: IDU-E with 1 or 2 x 10/100BT and 1 or 2 x DS1, or IDU-C with 2 x 10/100BT and 4 x DS1 and optional power redundancy. Two types of ODUs are available: ODU with

integrated 1ft antenna, or ODU with N-type connector for external antenna. An all indoor unit with N-type connector for external antenna is also available. Ceragon's FA4800 solutions can also be installed in a unique multipoint-to-point (Multi PtP) architecture; multiple units are deployed in one hub site location, from where they provide a dedicated high capacity connection to each remote site. The PtMP concept builds on Ceragon's unique Hub Site Synchronization (HSS) feature, which synchronizes the transmission of collocated FibeAir 4800 radios thus dramatically reducing mutual interference commonly experienced with collocated TDD radios.

Applications

Wireless ISP Backhaul

Wireless Internet Service Provider (WISPs) use backhaul to connect their Point of Presence (POP) to their network operation centers. Using FibeAir 4800, WISPs have a higher capacity, with a range of up to 50 miles, and bundled connectivity, within the same cost effective package.

Wi-Fi and WiMAX Backhauling

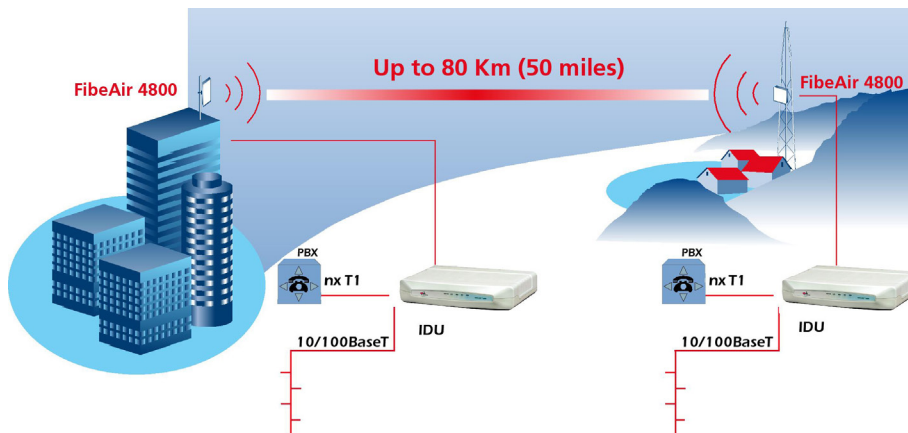
Provides a robust and cost-effective wireless alternative to leased lines, for the last mile connection between the Wi-Fi / WiMAX access point and the data network.

Cellular backhauling

Offers DS1 standard legacy connectivity and seamless migration to ethernet connectivity for NGN.

Private Networks

Transparent connection of enterprise LAN and PBX systems which reduces communication costs, operating expenses and maintenance requirements.



Key Features

- High data rate up to 48 Mbps
- Cost-effective Ethernet and n*DS1 transmission link
- Wide radio bands offering 2.3GHz - 6GHz (2.4GHz - 5.8GHz) bands
- 5 MHz, 10 MHz and 20 MHz channel BW support
- Adaptive modulation (automatic rate selection)
- Complies with FCC, IC Canada, ITU-T and IEEE standards and frequency plans, for operation worldwide
- AES 128 Encryption
- Complete SNMP-based local and remote management –
- Managed by PolyView NMS
- Configurable modulation schemes
- BPSK, QPSK, 16 QAM, 64 QAM

