

FibeAir[®] 10060

Gigabit Ethernet Radio

Features

- ▣ Provides full rate Gigabit Ethernet (1.25 Gbps), non-blocking, full duplex
- ▣ 60 GHz license-free radio operation
- ▣ Highly secure, with significant interference reduction
- ▣ All outdoor, single & compact unit
- ▣ Simple deployment, with plug & play installation
- ▣ Mounts on side/roof of building
- ▣ Works with all standard Gigabit Ethernet equipment
- ▣ Up to 99.999% availability, low latency (< 50 uSec)
- ▣ Complies with FCC standards



Description

The FibeAir™ 10060 digital radio system is an easy-to-deploy, low-cost solution that supports ultra-high capacity traffic. The license-free 60 GHz band in which FibeAir 10060 operates is exempt from coordination and licensing requirements, offering low-cost installation by avoiding spectrum licensing and approval processes. The 60 GHz radio is ideal for secure transmission over short distances (up to 900m) and enables outstanding frequency re-use, due to atmospheric absorption and the use of narrow beam width antennas.

FibeAir 10060 enables service providers and private network operators to create scalable and flexible networks in point-to-point, cascaded, ring, or mesh topologies, and can also be used in Hot Standby configurations.

Potential applications include:

- ▣ High-capacity Wide Area Network (WAN) and Metropolitan Area Network (MAN) connections from fiber POPs to nearby buildings
- ▣ LAN backbones between buildings within a campus, for high-speed data connections
- ▣ Supports centralized IT, VLANs, VPNs, remote backup, remote administration, video conferencing
- ▣ Low-cost constructions, with minimum delays
- ▣ Ideal for redundant paths of fiber, copper, licensed microwave, or free-space optical links

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Technical Specifications

GENERAL

Standards: FCC Part 15 Section 255
Canada Section RSS-210

Operating Frequency Range: Low transmit: 58.1 GHz
High transmit: 62.9 GHz

Occupied Bandwidth: 1.4 GHz

Modulation: BFSK, Reed-Solomon (204,188) FEC

Duplex: Frequency Division Duplex (FDD)

Latency: < 50 µSec

INTEGRATED ANTENNA

Gain: 40 dBi (typical)
Polarization: horizontal or vertical
Type: directional cassegrain

PAYLOAD

Data Interface
1000Base-SX (LC connectors)
Multimode Fiber Cable Lengths:
62.5/125 µm 270 meters (max.)
50/125 µm 500 meters (max.)

ENVIRONMENTAL

Operating Temperature: -30 to +50 deg C

Altitude: Up to 4,500 meters (15,000 ft)

Environmental Protection: IP55

POWER

Indoor wall power adapter

Input: 110/220 VAC

Output: +24 VDC

Power cable length 250 meters (max.)

Power consumption <40 watts (w/o cable)

MECHANICAL DIMENSIONS

ALL ODU: 30 cm H x 30 cm W x 12 cm D
4.5 kg Weight

Mounting Bracket: 3.0 kg Weight

INSTALLATION

Wall or mast mounts provided

Visual sight for coarse alignment

Receive signal strength test point for fine adjustment

Link quality test point to verify error-free performance

Minimum link distance: 20 meters



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