

Fixed Antenna System



TURNKEY CUSTOMIZED SOLUTIONS FOR DIVERSE AND COMPLEX ENVIRONMENTS

The Tachyon CF1300 Satellite Terminal System includes everything you need to connect to Tachyon's carrier-grade global network. Now, locations previously unreachable or too expensive to connect via terrestrial broadband can be served quickly and cost-effectively. The CF1300 will meet the needs of permanent or long-term locations with a high-performance antenna, radio, LNB, mount, cabling and Tachyon's CI1300 Indoor Unit.



The CI1300 Indoor Unit can be purchased separately and is ideal for supporting personnel on the move as well as permanent remote sites due to its small and portable size. Combining a highly efficient satellite modem with industry-leading network transport technology, the CI1300 overcomes the effects of satellite delay through a variety of technology innovations.

Tachyon offers extremely high fidelity link performance (<10⁻¹⁰ bit error rate) TCP acceleration using a protocol proxy that preserves standards compliance and patented web pre-fetch technologies to allow incredibly fast web browsing.

Tachyon has built its reputation as the premier end-to-end communications provider that delivers the highest quality satellite service. Our customized solutions for diverse and complex environments are financially backed by Service Level Agreements (SLAs) guaranteeing the high performance and availability.

Key Features

- Look and feel of terrestrial networks
- Superb enterprise applications performance
- Integrated router reduces capital outlays
- Dynamic routing protocols and auto-fail over simplifies integration with terrestrial networks
- Quality of Service (QoS) technology delivers industry's best traffic delivery Service Level Agreements (SLA's)
- Guaranteed VoIP traffic delivery insures excellent audio quality and call reliability
- Web interface for monitoring and control
- SNMP for automated network management
- Satellite industry standard IF interfaces
- Frequency agile burst transmitter supports efficient deployment of large scale networks

Solution Advantages

- Line speed TCP acceleration – without spoofing
- 100% standards compliant TCP/IP
- HTTP pre-fetch for fast downloads
- Industry-leading VoIP quality
- Highly scalable network management with open standards SNMP
- Robust satellite waveforms for low error rate performance

Fixed Access System

INDOOR UNIT

Includes

- Enclosure: 1RU
- Power Supply
- Intel®-Based Motherboard
- Flash Drive
- Ethernet Card
- Tachyon's Satellite Modem Card

Power Specifications

- Auto Detectable Voltage Range: 100-240 VAC
- Frequency: 50-60 Hz
- Power: 138 Watts (Typical), 180 Watts (Max)

Mechanical Specifications

- Dimensions: 1.75" (4.45 cm) x 17.0" (43.18 cm) x 10.5" (26.67 cm)
- Weight: 10.5 lbs (4.75 kg)

Environment Specifications

- Temperature: 0° to +40° C (Ambient Air)
- Humidity: 0 to 95% (Non-Condensing)

Physical Interfaces

Network:

- RJ-45
- 10/100 BaseT Ethernet L-Band Transmit

Receive:

- Type F Female Connector
- 75 Ohm

Satellite Signal Interfaces

Transmit:

- IF 950 MHz to 1450 MHz
- BUC Supply Power: +15 VDC to +24 VDC

@25 Watts Receive:

- IF 950 MHz to 2150 MHz
- LNB Supply Power: 20 VDC @200 MA

OUTDOOR UNIT

Antenna Specifications

- Temperature: -30° To +60°C (Ambient Air)
- Relative Humidity: 0 to 100%
- Rain: Up to 2 cm/hr

Sizes:

- 1.2 Meter: 2 or 4 Watt BUC (With or Without Anti-Ice)
- 1.8 Meter: 2 or 4 Watt BUC (With or Without Anti-Ice)
- 2.4 Meter: 2 or 4 Watt BUC (With or Without Anti-Ice)

Mount Specifications

- Mount Options: Roof, Wall or Ground

Includes:

- Azimuth-Elevation Positioner
- Feed Support Beam
- Support Rods

Radio Specifications

- Temperature: -30° to +55°C (Ambient Air)
- Relative Humidity: 0 to 100%
- Rain: Up To 2 cm/hr

Includes:

- RF Feed-Horn
- Block-Up Converting Power Amplifier (BUC)
- Ortho-Mode Transducer
- Low-Noise Block Down-Converter (LNB)
- Transmit Reject Filter

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