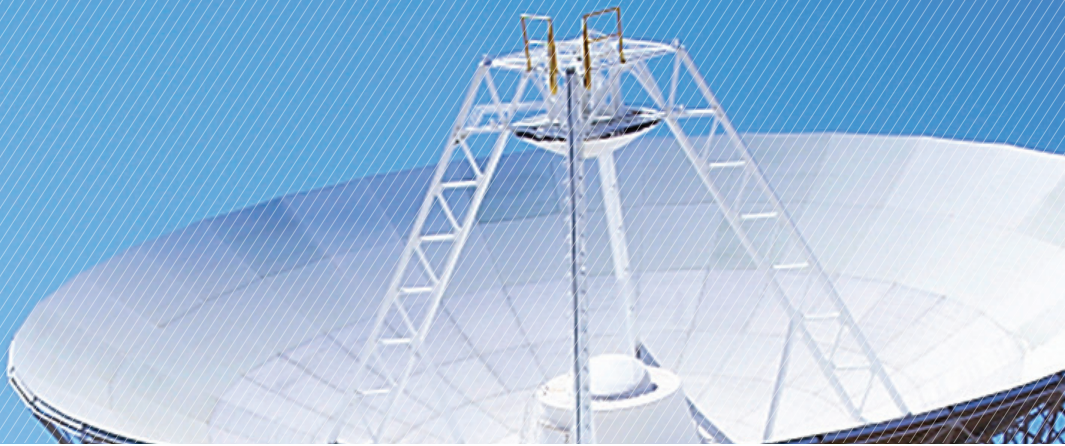


Fixed Solutions

aXiom 1300



aXiom 1300

FIXED ACCESS CPE

The Tachyon aXiom 1300 Satellite Terminal 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 aXiom 1300 will meet the needs of permanent or longterm locations with a high-performance antenna, radio, LNB, mount, cabling and Tachyon's 1300 Indoor Unit.

The aXiom 1300 Indoor Unit can be purchased separately and is ideal for supporting personnel on the move as well as permanent remote sites due to it's small and portable size. Combining a highly efficient satellite modem with industry-leading network transport technology, the aXiom 1300 overcomes the effects of satellite delay through a variety of technology innovations. 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 allow incredibly fast web browsing.

SOLUTION ADVANTAGES

- Line speed TCP acceleration – without spoofing
- 100% standards compliant TCP/IP
- HTTP pre-fetch for fast downloads
- Industry-leading Voice over IP quality
- Highly scalable network management with open standards SNMP

- Robust satellite waveforms for low error rate performance

FEATURES AND BENEFITS INCLUDE

- 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
- QoS technology delivers industry's best traffic delivery 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



aXiom 1300 Fixed Solutions

FIXED ACCESS CPE TECHNICAL SPECIFICATIONS

Indoor Unit

Includes:

- Enclosure: 1RU
- Power supply
- Linux-based aXiom Services Platform (ASP)
- 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
- Supports popular routing protocols:
 - RIP, RIPv2, BGP, OSPF, EIGRP

L-band Transmit and 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 – with or without anti-ice, 2 Watt BUC
- 1.8 meter – with or without anti-ice, 2 Watt BUC
- 2.4 meter – with or without anti-ice, 2 Watt BUC

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