

The First Reliable, High-Speed, Carrier-Grade Satellite Broadband Network for Commercial Enterprises and Government Agencies.

The Only Satellite Broadband Network to Deliver Guaranteed QoS.

IPTransport (Indoor Unit)

Terrestrial-like speed and performance guaranteed by QoS SLAs

Tachyon Networks Incorporated (“Tachyon”) developed its IPTransport (Indoor Unit) as a key component to its Customer Premise Equipment (CPE) that is used with Tachyon’s Primary Service and terrestrial-independent Back Up Service. The IPTransport Unit contains the processing components to translate satellite signals to and from IP packets for your LAN. And because it’s powered by T-Force, the Satellite Broadband Optimizer, the IPTransport Unit is crucial to delivering reliable, fast satellite broadband transport while maintaining TCP/IP standards compliance. Small and portable, the IPTransport Unit is designed to support personnel on the move as well as permanent remote sites.

T-Force’s Protocol Proxy Software and QoS Technologies reside within the IPTransport Unit, eliminating the effects of latency on TCP’s congestion control, rate discovery, and acknowledgement mechanisms and ensuring terrestrial-like speed and performance. Now you can use your network applications at the same speed, with the same reliability, you’ve come to expect from your terrestrial broadband

network. No other provider can deliver the same performance, with guaranteed satellite broadband QoS.

Tachyon’s IPTransport Unit:

- » Guarantees QoS through T-Force’s packet prioritization and rate control mechanisms
- » Maintains TCP/IP standards compliance and performance
- » Integrates easily and quickly with your existing network infrastructure
- » Supports temporary and permanent remote sites with portability and durability

Extend Your Investment

For the customer with serious security needs, Tachyon provides Secure Traffic Accelerators to ensure rapid end-to-end delivery of encrypted data—whether you’re using IPSEC or proprietary security protocols—so you can rely on fast, bullet-proof delivery of secure information to and from temporary sites.

Tachyon Answers the Call for Connectivity

Tachyon meets today’s need for network connectivity—anytime, virtually anywhere—with a variety of broadband services and options.

All of Tachyon’s solutions are powered by T-Force, the Satellite Broadband Performance Optimizer. T-Force consists of core network and satellite communications technologies, proprietary software, and methodologies that together deliver reliable, fast satellite broadband transport; maintain TCP/IP standards compliance; and guaranteed QoS backed by full SLAs.





IPTransport Unit Components

The IPTransport Unit is a 1-rack unit high enclosure containing a power supply, Pentium-based motherboard, flash drive, Ethernet card, and Tachyon's satellite modem card. All components, other than the satellite modem card, are commercial-off-the-shelf.

The IPTransport Unit functions as an open standards-compliant static router to the local LAN. The data path includes Tachyon's industry leading TCP acceleration and patented web pre-fetch technologies delivering the look and feel of terrestrial networks. At the LAN interface, the IPTransport Unit is completely standards-compliant with open Internet protocols, so no compatibility compromises are required for information to travel via Tachyon's satellite broadband network.

The IPTransport Unit network management system supports industry standards and focuses on ease-of-integration with terrestrial networks. The IPTransport Unit hosts a secure administrative web page accessible via the local LAN or over the satellite link, which provides visibility and control of the LAN and satellite interfaces. The IPTransport Unit also includes a MIB II compliant SNMP agent, which supports open standards-based network management systems. So, whether you have one site or thousands under management, Tachyon's IPTransport Unit has the right network management tools.

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TECHNICAL SPECIFICATIONS

Physical Interfaces

- » Network - RJ-45
- » L-band transmit and Receive - Type F female connector, 75 Ohm

Network

- » 10/100BaseT Ethernet

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

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" (4.45cm) x 17.0" (43.18cm) x 10.5" (26.67cm) (1 RU)
- » Weight –10.5 lbs (4.75 kg)

Environmental Specifications

- » Temperature 0° to +40° C ambient air
- » Humidity 0 to 95% non-condensing

*Specifications subject to change without notice