

Data Sheet

1 FINITY™ T400 Transport Blade

10 GbE to 100G-BaseR Layer 1 aggregator

T400 Transport Blade at a Glance

- Modular 1RU blade design
- 25 × 40 GbE (QSFP+) client ports providing 100 × 10 GbE via a 4:1 breakout cable
- 10 × 100G-BaseR (QSFP28) network ports
- CLI script, SNMP, RESTCONF, or NETCONF management



Product Overview

While virtually all modern transport solutions utilize 100G or 200G wavelengths, it is still necessary to accommodate 10 GbE services traversing these systems. The 1 FINITY T400 transport blade serves this purpose as a 1 Tbps Layer 1 aggregator providing 10 GbE to 100G-BaseR aggregation. The blade is compliant with the OIF Multi-Link Gearbox (MLG) implementation agreement 3.0.

Fixed Blade-Based Design

Designed to meet both central office and data center requirements, the fixed 1RU design of the T400 optimizes use of rack space and easily accommodates rapid bandwidth growth. The T400 base system is adaptable, with AC or DC power feeds, redundant replaceable fans, and integrated virtual Management Control Unit (vMCU) software for control and monitoring. Additionally, the use of copper port types lowers cost.

By using MLG, the T400 supports up to 100 × 10 GbE client interfaces with fixed mapping aggregation into 40 GbE clients, then aggregated into 10 × 100 GbE trunk interfaces.

Decoupling Aggregation and Transpondering Adds Flexibility

Since the T400 decouples aggregation from the transponder, the platform is highly flexible to deploy. Growth in the line rate, or changes in the mix of 10 GbE and 100 GbE being transported, are simpler to accomplish with a decoupled unit.

Simplified Network Operations

The T400 employs a Linux-based operating system and can be managed via command-line interface (CLI), Web GUI, SNMP, RESTCONF and NETCONF. The Web GUI or CLI script can provision numerous service options. Coupled with the YANG-defined protocols, it is easy to use the T400 with open SDN network controllers, including Fujitsu Virtuora® NC.

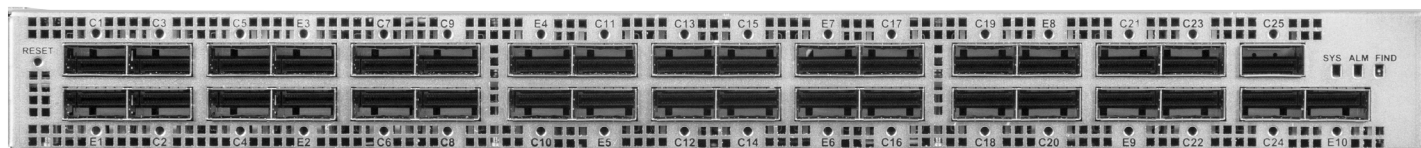
Support for Operational Automation

The 1 FINITY T400 is equipped with features that improve data gathering and monitoring and support operational automation:

- Ethernet Link Layer Discovery Protocol (LLDP) snooping
- Zero-touch provisioning
- Streaming telemetry
- Ethernet MAC frame monitoring

1 FINITY: A Revolutionary, Disaggregated Platform

For network operators seeking an open, simple, scalable architecture to meet escalating bandwidth demand, 1 FINITY from Fujitsu is a revolutionary disaggregated platform that delivers unprecedented flexibility, scalability, and efficiency. Unlike the traditional converged systems other vendors provide, the programmable, blade-centric design of 1 FINITY offers operators a pay-as-you grow approach with low initial investment. Additional benefits include high rack space utilization, evergreen technology design, operational convergence, open pluggable optics, open APIs, and open protocols.



Up to 10 × 100G-BaseR (QSFP28) service ports

Up to 25 × 40 GbE (QSFP+) client ports with 4:1 fanout for 100 × 10 GbE

Technical Specifications

Base System		Physical Characteristics	
System Configuration	Fixed 1RU Blade	Dimensions (H × W × D)	1.75 × 16.85 × 17.72" (44.5 × 428 × 45 mm)
Local Management Port (LMP)	None	Weight (Blade)	31 lb (14 kg)
Management Port (LCN)	2 × 10/100/1000 Mbps Ethernet RJ-45	Operating Environment	
Front LEDs	System Status, Alarm Severity, and Port Blue: "Find Me"	Operating Temperature	0 to +40 °C
Fans	2 replaceable fans	Operating Humidity	5% to 95%
Power Supply	Dual replaceable AC or DC power supplies	Power	
Software OS	Linux	Power Supply	Dual Replaceable Power Modules
Client Optics		120 V AC	100 V AC to 240 V AC
Client Ports per Blade	25	-48 V DC	-42V DC to -56V DC
Optical/Electrical Interface	QSFP+ with 4:1 fanout, 4 × GbE	Power Consumption	450 W (typical)
Supported Interfaces	SR4	Regulatory and Compliance	
Service Ports		FCC	FCC Part 15, Class A
Service Ports per Blade	10	NEBS	NEBS Level 3
Service Rate	100G-BaseR	UL/CSA	UL/CSA 60950-1
Optical Module	QSFP28	RoHS	RoHS 6
Supported Interfaces	CR4, SR4, LR4, CWDM4		
Performance Monitoring			
Service PMs	24-hour, 15-minute, 1-week, and 1-month bins		
Real-Time Power Usage	Yes		
Thresholds and TCA	Supported (fixed values)		
Management			
Virtuora NC	Yes		
Web GUI	Yes		
CLI	Yes		
NETCONF/YANG	Yes		
RESTCONF	Yes		
SNMP	SNMPv2		
Communications	SSH, SFTP		
Timing	NTP, SNTP R2.1		
In Band Management	No		
OSMINE Support	CLEI		

Fujitsu Network Communications, Inc.

2801 Telecom Parkway, Richardson, TX 75082

Tel: 888.362.7763

us.fujitsu.com/telecom