

TIBCO FTL Message Switch

Benefits

Fully Integrated Solution

Layer 2/Layer 3 switching fabric natively integrates with existing networking backbones and TIBCO FTL®, the industry's fastest messaging service platform.

Extreme Performance & Reliability

Eliminates the need for multiple boxes – delivering improved performance, reliability, and manageability in a convenient, easily deployable, hardware-based solution.

Rapid Application Development

Seamlessly integrates with existing applications and infrastructure components via easy-to-use APIs for C, Java, and .NET (incl. native integration with TIBCO Rendezvous®).

Out-of-the-Box Fault-Tolerance

Prevents downtime and data loss in the event of switch failures by providing continuous availability to applications.

Cutting-Edge Technology

Harnesses innovative breakthroughs in hardware technology – incl. high performance multi-core processors and support for 1, 10, and 40 GB Ethernet connectivity.

Optimized Network Performance

Streamlines protocol to minimize intra-host network traffic and maximize throughput for high-volume environments (or those where bandwidth is limited).

At a Glance:

The TIBCO FTL® Message Switch deploys high-performance messaging applications directly on a highly-optimized Server-Switch™, significantly improving performance, reliability and manageability in a convenient, easily deployed hardware-based solution.

Redefining Benchmarks: Extreme, Enterprise-Class Performance

As data volumes rise and the time we have to react continues to decrease, so too will demands and requirements for high-speed distribution and throughput. For organizations that are looking to respond more quickly and depend on extreme, low-latency messaging to compete, TIBCO FTL Message Switch is the next step forward.

Revolutionary Approach

Melding network technology and server functionality, TIBCO FTL Message Switch is the first truly integrated and inline messaging solution – providing highly reliable performance without specialized hardware, such as field-programmable gate arrays (FPGAs).

Supreme Application Speed

Allows your extreme-low-latency, applications to be deployed directly onto the network layer via an optimized Server Switch™, eliminating multiple servers and removing additional network hops to further reduce end-to-end latency.

Enterprise-Class Resilience & Performance

Resilient and extensible foundation draws on more than 20 years of industry-leading experience in high-performance messaging technology and is based on an enterprise-class UNIX operating system (incl. Pluribus Networks nvOS®) – proven to provide continuous availability and scalability in demanding, mission-critical environments.

Rapid Deployment & Provisioning

Highly modular, fault-tolerant, and self-healing design enables exceptional operational flexibility with network virtualization – making zero-touch provisioning of virtual machines and network services a reality.

Hardware Specifications

- 2U rack-mountable; Front-to-back airflow for hot-aisle/cool-aisle data center cooling
- Dual-socket high-performance Intel chipset
- 128 GB memory
- 2 × 1 TB RAID 1 hard drives
- Ultra-low latency port-to-port distribution of less than 400 nanoseconds
- 1.2 Tbps throughput Layer 2/Layer 3 switch with edge router and multicast capabilities
- 48 SFP+ 10 GB ports and 4 QSRP+ 40 GB ports, located at the rear of the chassis

Attributes and Capabilities

Revolutionary Data Distribution

Integrates an Ethernet switch, network services engine, and high-performance TIBCO FTL message distribution using a non-blocking, ultra-low latent, and scalable networking fabric.

Improve Application Speed

Deploys critical, messaging applications directly into the network layer, supported by Pluribus Networks Netvisor operating system. The ultra-low latency, 1.2 Tbps throughput switch provides full Layer 2/ Layer 3 functionality with edge router support and full multicast capabilities.

Networking & Beyond

The development of high performance applications must consider hardware, the network, data distribution, and the application itself. TIBCO FTL Message Switch provisions and manages all of these components in a single 2U rack-mountable switch-server.

Extreme-Low Latency

With sub-microsecond intra- and inter-host communication, the TIBCO FTL software platform features advanced, extreme low-latency messaging. For example, FTL performance benchmarks have shown average latencies below 315 nanoseconds for intra-host communication using shared memory. The FTL Messaging Switch can help secure and improve these speeds for your mission-critical applications.

Simplified Distribution & Management

Reduces complexity (i.e. intricate subject hierarchies) and allow application to only receive relevant information by addressing and distributing data flexibly based on content or filtering at the subscription level.

Eased Development with Self-Describing Data

Frees developers from parsing binary data streams and managing metadata for individual applications, allowing them to focus on writing high-performance application code that is less brittle and more maintainable.

TIBCO Software Inc. (NASDAQ: TIBX) is a provider of infrastructure software for companies to use on-premise or as part of cloud computing environments. Whether it's efficient claims or trade processing, cross-selling products based on real-time customer behavior, or averting a crisis before it happens, TIBCO provides companies the two-second advantage® – the ability to capture the right information, at the right time and act on it preemptively for a competitive advantage. More than 4,000 customers worldwide rely on TIBCO to manage information, decisions, processes and applications in real time. Learn more at www.tibco.com.



Global Headquarters
3307 Hillview Avenue
Palo Alto, CA 94304

Tel: +1 650-846-1000
+1 800-420-8450
Fax: +1 650-846-1005

www.tibco.com