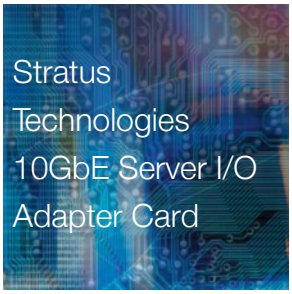

Ultra Dual-Port 10GbE SFP+ PCIe 3.0 Server I/O Adapter Card for Stratus Technologies

The Stratus Technologies dual-port 10G Ethernet SFP+ server adapter optimizes Stratus ftServer® Gen 8 and ftScalable® Gen 3 platforms delivering unmatched message rates with low latency and jitter over standard Ethernet along with low CPU utilization, enabling the industry's best performance and scalability for enterprise data center environments.

The Stratus dual-port 10G Ethernet SFP+ server adapter card delivers the industry's lowest latency and highest message rates accelerating trading applications, and credit and debit card authorizations that require processing in real-time, where even the smallest amount of system downtime or latency can be detrimental. The combination of the Stratus card, the ftServer platform and ftScalable storage delivers the industry's highest levels of availability and ultra-fast, consistent processing and will keep trading platforms always-on and processing at the highest speeds available on the market.

Optimized Server I/O

Featuring a full set of stateless offloads, the Stratus card reduces CPU processing loads for the most demanding network tasks. With OpenOnload®, the card bypasses kernel and networking overheads, providing unprecedented performance with seamless application compatibility and protocol compliance. OpenOnload features binary compatibility with all standard APIs and applications. The card's CPU offload along with high performance enables servers to provide more services to more users in high performance computing, cloud, grid, Big Data, storage, Web 2.0, VoIP, and financial services enterprise data center environments.

Ultra-Low Latency

The Stratus card supports PCIe 3.0 with ultra-low latency features such as direct packet transfer (Tx PIO) mode and the templated send API. The card also features hardware acceleration to optimize packet delivery, such as UDP multicast replication, integrated layer 2 switching capability and VLAN insertion / removal, along with TCP segmentation offload (TSO) to reduce CPU load.

Scalable, Hardware-Assisted Virtualization

With 10x the number of vNICs and virtual PCIe functions than the competition, the card's performance scales as the number of CPU cores increase.

Stratus 10GbE Server I/O Adapter

Find Out More
For more information, or to purchase Stratus products, call 1-800-STRATUS, or visit www.stratus.com.

Stratus Technologies 10GbE Server I/O Adapter Card

Stratus10GbE Server I/O Adapter

Specifications

Standards & Compliance IEEE
802.3ae
IEEE 802.3ad
IEEE 802.1Q
IEEE 802.1p
IEEE 802.3x
RoHS Compliant

Power
7.3W (typical)

Operating Range
0º to 55º C
100 LFM, Min.

Physical Dimensions L:
13.4 cm (5.3 in)
W: 6.9 cm (2.7 in)
End bracket height:
PCI Express standard
12.0 cm (4.725 in)

Order Information
Stratus P/N U116

Advanced Features & Benefits

PCI Express
PCIe 3.0 x8 @ 8.0 GT/s

SFC9120 10G Ethernet Controller
Supports high-performance 10GbE

SFP+ Support
Supports optical SFP+ fiber modules (10G)

Low Latency
Cut-through architecture/intelligent interrupt coalescing

Receive Side Scaling (RSS)
Distributes IPv4, IPv6 loads across all CPU cores; MSI-X minimizes interrupt overhead

Hardware Offloads
TSO, LRO, GSO; IPv4/IPv6; TCP, UDP checksums

Adapter Bonding/Link Aggregation
LACP for redundant links & increased bandwidth (compatible with MLAG)

Jumbo Frames
9216 byte MTU for performance

Enhanced Tuning
Adaptive interrupt moderation

IP Flow Filtering
Hardware directs packets based on IP, TCP, UDP headers

Advanced Packet Filtering
4096 multicast filters; adaptive TCP/UDP/IP, MAC, RSS, RFS filtering; Accelerated Receive Flow Steering (RFS)

Intel QuickData™
Uses host DMA engines to accelerate I/O

Management
SNMP, ACPI v3.0

Operating Systems
RHEL 7

Regulatory product code: S7120

SF-115520-CD Issue 1

SOLARFLARE®

Stratus Technologies

Find Out More
For more information, or to purchase Stratus products, call 1-800-STRATUS, or visit www.stratus.com.