

Efficient 16G Fibre Channel Transport



Growing with Data Center Virtualization

With the advent of new multi-core processors, flash solid state disk arrays and more pervasive cloud deployments, today's storage administrators are under pressure to increase data storage requirements and improve efficiency due to the trend of growing virtualized data centers. Fibre Channel technology has evolved to address this challenge with the recent doubling of the speed of 8Gbit/s to 16Gbit/s. In addition to increased speed, the new standard includes low energy consumption, significantly increased storage area network (SAN) density and improved latency performance. Our efficient 16G Fibre Channel transport module provides equal benefits to your optical data center interconnection and enables the seamless evolution of your SAN architecture to increase capacity and performance.

Market-Leading Compactness and Energy Efficiency

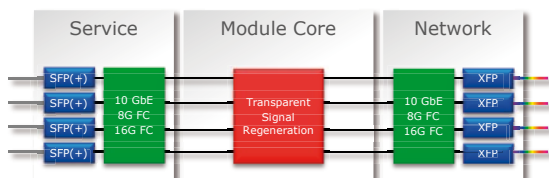
Our efficient 16G Fibre Channel module in the FSP 3000 is optimized for high-capacity SAN interconnection applications requiring ultra-compact footprint and low energy use. Its quad-transponder design combines four independent and fully functional transponder modules on a single one-slot component. The market-leading integration level implies space efficiency and low power consumption, therefore reducing rack-space requirements and energy costs to a minimum. It enables transparent and wire-speed services for a variety of protocols including 10 Gigabit Ethernet, 8G and 16G Fibre Channel.

The integrated hardware design delivers ultra-low latency in the single-digit nanoseconds range, making our 16G quad-transponder the ideal solution for high-performance, mission-critical SAN interconnection and high-frequency trading applications. Comprehensive service performance monitoring functions and the option for fast protection switching enable the delivery of resilient services while keeping operational expenditures for network maintenance and troubleshooting low.

Key Benefits

- Four fully functional terminal entities on a single component
- Flexible transport of 10GbE, 8G and 16G Fibre Channel
- Compact design for industry-leading space efficiency
- Low energy consumption and minimum heat dissipation
- Protocol-agnostic, wire speed forwarding performance
- Ultra-low latency for high-performance data mirroring and high-frequency trading

Quad Transponder Module



The Proliferation of Mega Data Centers

As the world shifts to cloud computing, content service providers and enterprises are moving out of dispersed architectures into more centralized data centers. As information becomes more concentrated, companies move large volumes of data over short distances rather than small volumes of data over long distances, and therefore need more bandwidth between their main data center and the associated backup locations. Data center consolidation and the extensive use of virtualization and cloud computing is challenging the storage network for almost every sized data center and drives the need for higher capacities on SAN interfaces.

16G Fibre Channel deployment is growing and will dominate the enterprise storage interconnection market. Our efficient 16G Fibre Channel module in the FSP 3000 provides industry-leading density and lowest latency performance for high-capacity and high-performance SAN interconnection applications. Storage data can be transported with up to 1.5Tbit/s over a single pair of fiber. The interface and protocol flexibility of our module allows converged transport of storage and compute data and supports the seamless migration from 8G to 16G Fibre Channel interfaces deployed in the data center SAN.



Item Name	4WCE-PCN-16G
System Requirements	FSP 3000 release 11.2 or later
Client Formats	10GbE, 8/16G FC
Line Interface	10GbE, 8/16G FC
Wavelength Range	C-Band (50GHz)
Performance Monitoring	Physical Layer
Power Consumption	30W
Environmental Characteristics	+5°C ... +40°C, 5% ... 85% relative humidity
Physical Dimensions	1 slot (W) x 5 height units (H)



For more information please contact an ADVA Optical Networking consultant or visit us at www.advaoptical.com

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