



NVMe SSD Performance	
4.8 GB/s4.8GB/sFabreXNVMe-oF	Server with GigalQ EabreX Network Adapter Card
NVMe SSD Performance	NVMe-oF Target Server with GigalO FabreX Network Adapter Card
4.8 GB/s4.0 GB/sFabreXDAS	GigalQ EabreX II 2 Resource Box

FabreX Native NVMe PCIe Fabric Optimizes Performance of Composable Infrastructure and NVMe-oF Architecture

The Ideal Network for NVMe over Fabrics

 GigalO FabreX[™] offers a native NVM Express (NVMe) PCI Express (PCIe) fabric for NVMe over Fabrics (NVMe-oF).

Modern Composable Infrastructure Solution

 A FabreX network supports all PCIe devices including SSDs, GPUs, PCIe accelerator cards, and more. Server and storage systems are supported with the addition of a FabreX PCIe network adapter card.

Compliant with NVMe and PCIe Open Standards

• FabreX networks run native PCIe end-to-end and are 100% compliant with PCI-SIG and NVM Express standards.

GigalO FabreX is a composable infrastructure solution that offers a native NVMe PCIe fabric supporting the NVMe-oF architecture. Running NVMe-oF over native NVMe PCIe fabrics—among the fastest in computing—achieves better performance than Ethernet, Fibre Channel, or InfiniBand fabrics.

The system illustrated above shows that FabreX composable infrastructure does not lower NVMe-oF performance.

The demonstration also shows that NVMe SSDs networked with FabreX can provide better performance than the same NVMe SSDs connected as direct-attached storage. This occurs because FabreX supports up to 16 PCIe lanes while the U.2 interface used for NVMe SSDs supports up to 4 PCIe lanes.