



z/OpenGate™ 2.0 FICON/FC Gateway for Enterprise Data Sharing

ALEBRA
PARALLEL
DATA MOVER



z/OpenGate™ 2.0

z/OpenGate™ 2.0, a FICON/FC Gateway, is the latest innovation from Alebra to help you manage your data sharing requirements in multi-platform enterprise IT environments composed of z/OS and Linux/UNIX/Windows servers.

Alebra's Parallel Data Mover™ (PDM) uses the functionality of z/OpenGate™ as the physical transport for data sharing between the two environments. The benefits derived are:

- Reduced server CPU cycles for cross-platform data access/data copy – no TCP/IP stack required - over 20 times more efficient than communications protocols
- High Security – Channel-based infrastructure
- Scalable to massive bandwidths – 1,000's of Megabytes per second

Based upon a Lenovo x3650-M4 Server, the z/OpenGate™ 2.0 is delivered pre-loaded with Alebra's exclusive z/OpenGate FICON/FC Gateway software. Support for PDM and z/OpenGate is provided directly by Alebra with onsite hardware maintenance provided through Alebra Technologies by IBM.

z/OpenGate™ 2.0, supports faster channel attachments and much improved bandwidth over previous z/OpenGate™ models. In addition to the high bandwidth streaming mode supported in prior models, the new gateway also supports a record mode for transmission of small (62k or less) data buffers. When used in conjunction with PDM Release 6, the record mode allows for record-level access of VSAM data from Open platforms. Streaming mode and record mode is configured by PDM software and can be concurrently in a z/OpenGate™ unit.

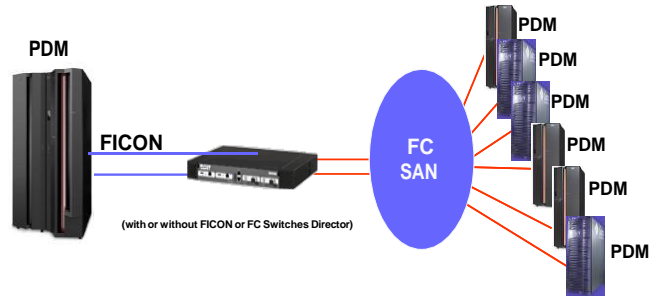
Ease of Configuration

z/OpenGate™ is configured via a GUI interface to map FICON device addresses to FC LUN numbers, allowing multiple logical data paths to be dynamically shared across LPARs in a Sysplex environment.

Support for Major Operating Systems

z/OpenGate™ 2.0 supports:

- z/OS
- SUN Solaris
- AIX
- Microsoft Windows Server
- Linux



Support for FICON/Fibre Channel Directors/Switches/HBA's

- Attaches 1 or 2 FICON Express2, Express4 or Express8 Channels
- Attaches 1 or 2 Fibre Channels Links from standard 2Gb, 4GB or 8Gb HBA's
- Supports FICON and Fibre Channel Fabric Switching
- Works with standard UNIX/Windows/Linux FC HBA from vendors such as Emulex, Qlogic, Brocade and others
- Includes support for Multiple-Image Facility and can connect directly to the mainframe channel or to a FICON Director
- Cascaded FICON directors are supported.

Built for High-Availability – Mission Critical Deployment

The z/OpenGate™ is a 2U (3.5 inches) high rack mount unit designed for high availability and redundancy. The unit features hot swappable power supplies and fans and internal, mirrored disks.

When connected to multiple Linux/UNIX/Windows servers, multiple z/OpenGate™ gateways can be configured for redundancy, which also provides PDM alternate path selection, ensuring high-availability.

Blazing Speed

PDM with z/OpenGate can move data cross-platform at the maximum speeds attainable on standard mode FICON Express channels. For most customer situations, data transfer rates are only limited by the speed of the sending or receiving storage devices. When PDM sends or retrieves data directly with programs, either by data piping or the PDM API, these programs perform as if the data were stored on locally attached disks.

Super Efficiency

Using extremely efficient programming methods and eliminating costly TCP/IP processing, PDM with z/OpenGate achieves the industry's best performance for cross-platform data access and data movement. Most TCP/IP based data transfer facilities require over 120 MIPS of z/OS processing capacity for every 100 MB/second of transfer rate. PDM with z/OpenGate requires a mere 5 to 6 MIPS for the same 100 MB/second transfer rate, over a 20 times improvement.

z/OpenGate™ 2.0 Specifications

Physical Attributes

2U Rackmount

Dimensions

Height: 86 mm (3.4 in), width: 445 mm (17.5 in), depth: 746 mm (29.4 in)

Weight

Minimum configuration: 25 kg (55 lb), maximum: 30 kg (65 lb)

Ports

- FICON (1 or 2) Multi-Mode or Single-Mode FICON Express2, Express4 or Express8 connections
- Fibre Channel (1 or 2) 2Gb, 4Gb or 8Gb standard HBA connections
- Dual Ethernet 10/100/1000 Mb/s Cat 6

Operating temperature range

50 – 95° F; 10 – 35° C (up to 3,000 ft / 914.4 m)
50 – 90° F; 10 – 32° C (3,000 ft to 7,000ft / 914.4m to 2,133m)

Airflow

Minimum 30 CFM
Maximum 75 CFM

Electrical

100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 10 A
200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 5 A

Input kilovolt-amperes (kVA) (approximately):
Minimum configuration: 0.15 kVA
Maximum configuration: 1.02 kVA

BTU output

Minimum configuration: 525 Btu/hr (123 watts)
Maximum configuration: 3480 Btu/hr (1020 watts)

Noise level

6.6 bels (operating)
6.4 bels (idle)



Additional Information
Visit www.alebra.com

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