Datasheet

CoreModule® FX400

Compact GPU expansion for Dell EMC PowerEdge FX2s

Powerful GPU accelerator for PowerEdge FX2s

The Amulet Hotkey® CoreModule™ FX400 is a unique, single slot PCIe expansion module incorporating an NVIDIA T4 GPU that accelerates diverse cloud workloads, providing high-performance computing, deep-learning training and inference, machine-learning, data analytics, and graphics. For new deployments or when modernizing existing FX2 infrastructure, the CoreModule FX400 enables organizations to:

- Extend ROI: to further enhance the FX2 business value
- Enhance User Experience: with graphics / remote display protocol offload
- Boost Productivity: with rapid graphics and GPU compute acceleration

Flexibility to handle demanding and evolving workloads

Use GPU acceleration to support new and tough workloads across the entire organization. Deploy in private, public or hybrid cloud environments that require performance, agility and flexibility.

PowerEdge blade servers and CoreModule FX400 modules combine Intel Xeon processor and NVIDIA T4 GPU accelerator performance with the efficiency of blades and the cost benefits of rack-based systems to support workloads such as:

- Virtual desktops: GPU accelerated VDI for Windows 10 and virtual workstations
- Application Delivery: such as 3D CAD and enhanced e-store applications
- Virtual workstations: with advanced visualization and computing
- GPU accelerated computing: for IoT, HPC, big data analytics, deep/machine learning and more

Uniquely architected for scalability and efficiency

Amulet Hotkey designed the CoreModule FX400 to deliver superior scalability, reliability and performance. Install up to 8 CoreModule FX400 units in a single, suitably powered FX2s enclosure with upto 4 CoreModule FX400 allocated to a single computer sled.

Benefits & Features

- Unique PCIe module that enables GPU accelerators to be installed in the Dell PowerEdge FX2s
- Increase agility, flexibility and efficiency while supporting tough new workloads
- Designed to fit inside the FX2s chassis to maintain FX2 architecture and density advantages
- Four PCIe 3.0 slots per module
- Up to 8x modules in a single 2U FX2s chassis
- Up to 4x modules assigned to a single compute sled

Powerful GPU Accelerators

- Each CoreModule FX400 supports a single NVIDIA T4 GPU
- Leverages NVIDIA Turing™ architecture - 320 Tensor cores
- 2560 CUDA cores for powerful parallel processing
- Energy efficient delivering upto 130 TFLOPS using only 70W
- Supports CUDA, NVIDIA TensorRT™, ONNX

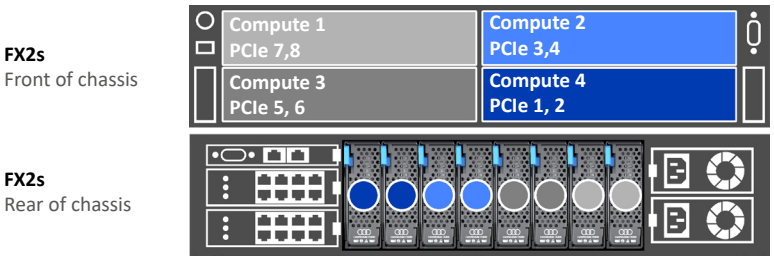
Easy Installation and Management

- Designed to fit into the FX2s enclosure PCIe expansion slots
- Fully integrated with FX2 management tools for simple and rapid deployment
- Supports the standard FX2s PCIe slot mapping and configuration options
- Easily mix with other FX2s compatible expansion modules

In partnership with:

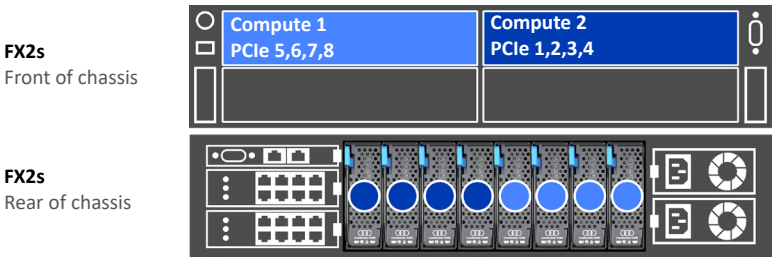
PCIe Slot Mapping with Computer Blades

When using four compute blades in an FX2s chassis, two PCIe slots are automatically mapped to each blade. No additional configuration is necessary.



PCIe Slot Mapping with Storage Blades or Manual Configuration

Four PCIe slots can be assigned to a compute blade for up to two blades in an FX2s chassis. Slot reassignment is automatic when using FD332 storage blades in the remaining bays. Alternatively, the CMC can be used to manually reassign PCIe slots.



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CoreModule® FX400 Specifications

Form factor:	Single-width module. For Dell PowerEdge FX2s Enclosure
Power:	Up to 70W per slot for CoreModule FX400 supplied by the FX2s enclosure 2400 W PSUs (Dell 450-AGFW) recommended for configurations with higher power compute sleds. Power requirements may be calculated using Dell Enterprise Infrastructure Planning Tool (EIPT). Ask for assistance.
Management:	Fully integrated with the FX2s Chassis Management Controller (CMC) and blade server iDRAC for system configuration and lifecycle management
GPU:	NVIDIA T4 - Turing Architecture, 16GB GDDR6, (300 GB/sec), 320 tensor, 2560 CUDA
INT8:	130 TFLOPS
Interconnect bandwidth:	32GB/sec
System interface:	X16 PCIe Gen3 (x8 used)
Computer API:	CUDA, NVIDIA TensorRT™, ONNX
Thermal solution:	Passive
Dimensions:	H: 82mm/3.23” W: 28.3mm/1.12” D:204mm/8.03”