

OakGate 8-Bay Modules for PCI Express® Gen6 OakGate SSD Test Appliances



Key Features

- Supported protocols include: NVMe, NVMe-MI (standard and basic)
- Ability to run unique tests on each device individually and concurrently
- Configurable to support 3.3V, 5V, and 12V
- Individual power cycling and power measurement under software control
- Voltage margining and power glitching on all slots
- Ability to turn power on/off to each device
- Ability to measure voltage and current for each port/device
- Ability to measure power under various low NVMe power states
- LED indicators: power (green), activity (yellow), alert (red), and link status speed (blue) on front of module
- Allows easy access to the device diagnostic port, if it is located on the front-side (opposite of the connector)
- Simple device replacement
- Support for I3C

OakGate PCIe 6.0 8-Bay Modules for the R300 and R350 Rackmount and DE200 Desktop Appliances are a robust, versatile way to test and debug solid -state NVMe drives (SSDs). Modules are available to support all popular storage interfaces. The 8-Bay Modules can be easily swapped in/out.

The M-Series 8-Bay Plug-In Modules provide a simple, flexible way to test all the popular SSD form factors and connector types within an OakGate R300 and R350 Rackmount Appliance and/or DE200 Desktop Appliance.

The module resides in the front compartment of the OakGate appliance and allows testing of up to eight SSDs.

The OakGate Storage Validation Framework (SVF) software, supplied with the appliance, can exercise each SSD individually, as well as provide built-in power cycling and power measurement capabilities.

The robust SVF software, now in its fifth generation, offers a comprehensive set of testing features and capabilities.

Enduro with SVF supports a broad range of capabilities including deep protocol inspection and analysis, high performance traffic generation, full performance characterization, error injection, advanced test automation and power cycling.

The OakGate platforms offer power measurements and power cycling, all under software control.



Figure 1. 8-Bay E1.S Plug-In Module for PCIe Gen6 – Fully Populated

Part Number	Description	PCIe 6.0	Slots	Single-Port	Dual-Port	NVMe	NVMe-MI	Power per Slot	Max Lane Width	Dimensions
OGT-MCEM-800-G6	Accommodates up to eight, single-port CEM Add-in-Cards	✓	8	✓		✓	✓	Up to 25W	x8	Without Handles 7.76"W x 14.01"L With Handles 7.76"W x 15.01"L
OGT-MU2-800-G6	Accommodates up to eight, single/dual-port U.2 NVMe SSDs	✓	8	✓	✓	✓	✓	Up to 25W	x4, 2x2	
OGT-MM2-800-G6	Accommodates up to eight M.2 drives	✓	8	✓		✓	✓	Up to 25W	x4	
OGT-MU3-801-G6	Accommodates up to eight, single-port U.3 NVMe SSDs	✓	8	✓		✓	✓	Up to 25W	x4	
OGT-MU3-802-G6	Accommodates up to eight, dual-port U.3 NVMe SSDs	✓	8		✓	✓	✓	Up to 25W	2x2	
OGT-MES-800-G6*	Accommodates up to eight, single/dual-port E1.S NVMe SSDs	✓	8	✓	✓	✓	✓	Up to 40W	x8, 2x2	
OGT-MES25-400-G6	Accommodates up to four, single/dual-port E1.S 25mm NVMe SSDs	✓	4	✓	✓	✓	✓	Up to 40W	x8, 2x2	
OGT-ME3S-800-G6**	Accommodates up to eight, single/dual -port E3.S NVMe SSDs	✓	8	✓	✓	✓	✓	Up to 40W	x8, 2x2	

* Supports the following E1.S form factors (5.9mm, 8.01mm, 9.5mm, and 15mm)

** Supports the E3.S, E3.L and the E3.S 2T form factors, but does not support the E3.L 2T form factor

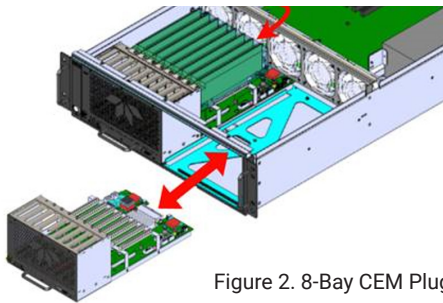


Figure 2. 8-Bay CEM Plug-In Module for PCIe Gen6 sliding into R300-G5 Rackmount Appliance

Benefits

- Modules are available to support the most common SSD connector types
- Test a multitude of different connector types to meet all your SSD test demands
- The 8-Bay Modules are designed to be easily swapped in/out by the customer
- Modules are supported in DE200-G5 Desktop and R300-G5 Rackmount Appliances

Ordering Information

Product Description

OakGate Gen5 Basic R300 Rackmount Appliance
 OakGate Gen5 ULTRA R300 Rackmount Appliance
 OakGate Gen5 Basic DE200 Desktop Appliance
 OakGate Gen5 ULTRA DE200 Desktop Appliance

Compatible M-Series 8-Bay Modules

Supports up to eight CEM Add-In Card NVMe drives
 Supports up to eight E2 NVMe drives / Single/Dual-Port Mode
 Supports up to eight E3 S/L Short or Long NVMe drives / Single/Dual-Port Mode
 Supports up to four E1 25mm Short NVMe drives / Single/Dual-Port Mode
 Supports up to eight E1 Short NVMe drives / Single/Dual-Port Mode
 Supports up to eight U.2 single or dual port 2.5-inch NVMe drives / Single/Dual-Port Mode
 Supports up to eight U.3 single-port, 2.5-inch NVMe drives
 Supports up to eight U.3 dual-port, 2.5-inch NVMe drives
 Supports up to eight M.2 drives

Product Code

OGT-R300-G5-BASIC
 OGT-R300-G5-ULTRA
 OGT-DE200-G5-BASIC
 OGT-DE200-G5-ULTRA

OGT-MCEM-800-G6
 OGT-ME2-800-G6
 OGT-ME3S-800-G6
 OGT-MES25-400-G6
 OGT-MES-800-G6
 OGT-MU2-800-G6
 OGT-MU3-801-G6
 OGT-MU3-802-G6
 OGT-MM2-800-G6



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