

OakGate 8-Bay Modules

for PCI Express® Gen5

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
- Individual power cycling and power measurement under software control
- Supports 3.3V, 5v, 12v, and 3.3v aux Power Rails
- 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

OakGate 8-Bay Modules for the R300-G5 Rackmount and DE200-G5 Desktop Appliances for PCI Express® Gen5 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 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 new OakGate Gen5 platforms offer power measurements and power cycling, all under software control.



Figure 1. 8-Bay E1.S Plug-In Module for PCIe Gen5 – Fully Populated

| Part Number | Description | PCIe 5.0 | Slots | Single-Port | Dual-Port | NVMe | NVMe-MI | Power per Slot | Max Lane Width | Dimensions |
|-------------------|---|----------|-------|-------------|-----------|------|---------|----------------|----------------|---|
| OGT-MCEM-800-G5 | Accommodates up to eight, single-port CEM Add-in-Cards | ✓ | 8 | ✓ | | ✓ | ✓ | Up to 25W | x8 | Without Handles 7.76"W x 13.12"L With Handles 7.76"W x 14.12"L |
| OGT-MU2-800-G5 | Accommodates up to eight, single/dual-port U.2 NVMe SSDs | ✓ | 8 | ✓ | ✓ | ✓ | ✓ | Up to 25W | x4, 2x2 | |
| OGT-MM2-800-G5 | Accommodates up to eight M.2 drives | ✓ | 8 | ✓ | | ✓ | ✓ | Up to 25W | x4 | |
| OGT-MU3-801-G5 | Accommodates up to eight, single-port U.3 NVMe SSDs | ✓ | 8 | ✓ | | ✓ | ✓ | Up to 25W | x4 | |
| OGT-MU3-802-G5 | Accommodates up to eight, dual-port U.3 NVMe SSDs | ✓ | 8 | | ✓ | ✓ | ✓ | Up to 25W | 2x2 | |
| OGT-MES-800-G5* | Accommodates up to eight, single/dual-port E1.S NVMe SSDs | ✓ | 8 | ✓ | ✓ | ✓ | ✓ | Up to 40W | x8, 2x2 | |
| OGT-MES25-400-G5 | Accommodates up to four, single/dual-port E1.S 25mm NVMe SSDs | ✓ | 4 | ✓ | ✓ | ✓ | ✓ | Up to 40W | x8, 2x2 | |
| OGT-ME3S-800-G5** | 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

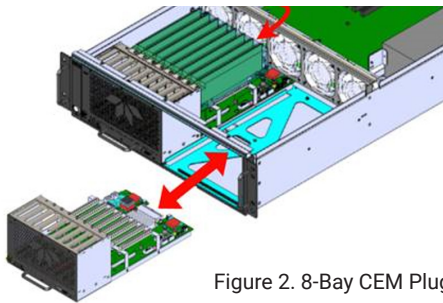


Figure 2. 8-Bay CEM Plug-In Module for PCIe Gen5 sliding into R300-G5 Rackmount Appliance

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

Product Code

OGT-R300-G5-BASIC
 OGT-R300-G5-PRO
 OGT-DE200-G5-BASIC
 OGT-DE200-G5-PRO

Compatible M-Series 8-Bay Modules

Supports up to eight Add-In Card (AIC) NVMe drives
 Supports up to eight single or dual-port E3 S/L Short or Long NVMe drives / Single/Dual-Port Mode
 Supports up to four single or dual-port 25mm E1 Short NVMe drives / Single/Dual-Port Mode
 Supports up to eight single or dual-port 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

OGT-MCEM-800-G5
 OGT-ME3S-800-G5
 OGT-MES25-400-G5
 OGT-MES-800-G5
 OGT-MU2-800-G5
 OGT-MU3-801-G5
 OGT-MU3-802-G5
 OGT-MM2-800-G5



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