

M-Series 4-Bay EDSFF 1U Short Plug-In Modules for PCIe Gen4

OGT-MES401E-G4, OGT-MES402E-G4, OGT-MES401L-G4, OGT-MES402L-G4, OGT-MES401R-G4, OGT-MES402R-G4

When installed in an OakGate expandable desktop or 3U rackmount appliance, the M-Series 4-Bay EDSFF 1U Short Plug-In Module for PCIe Gen4 provides a simple way to test and debug up to four EDSFF 1U short NVMe solid state devices (SSDs) that use a x4 (1C) SFF-TA-1002 connector. One module can be installed in the front compartment of an expandable desktop, and up to two in the front left and right compartments of the 3U rackmount appliance. Depending on the module type, single-port and/or dual-port NVMe EDSFF 1U short SSDs can be tested.

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

Figure 2 shows two 4-Bay EDSFF Short Plug-In Modules, with the included two NVMe x16 host cards and cables, within the 3U rackmount appliance. With this configuration, up to eight single-port or dual-port NVMe 1U short SSDs can be tested.

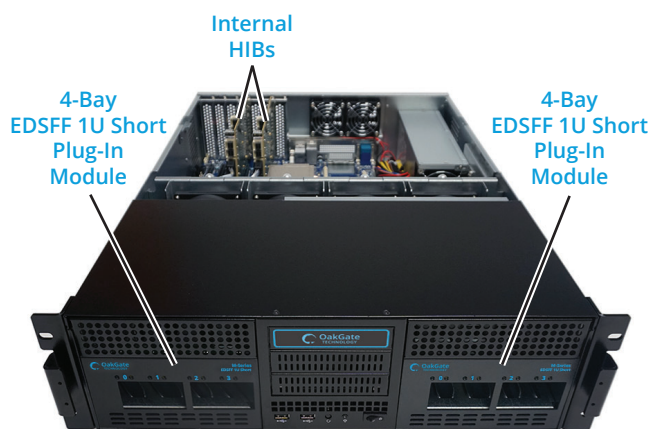


Figure 2. Two Modules Installed in a 3U Rackmount Appliance (OGT-R300)









Figure 1. 4-Bay EDSFF Short Plug-In Module

FEATURES

- PCI Express® 4.0 (PCIe Gen4) compatible
- Contains four bays (slots), each with a x4 (1C) SFF-TA-1002 connector
- Tests up to four EDSFF 1U short single-port and/or dual-port NVMe SSDs, depending on the module type
- Supports EDSFF 1U short form factors as defined in the *SFF-TA-1006 specification* (some of the narrow form factors may be required to use the included EDSFF short carriers)
- Ability to run unique tests on each device, individually and concurrently
- Individual power cycling and power measurement under software control:
 - Configurable to support 3.3V, 5V, and 12V
 - Ability to turn power on/off to each port/device
 - Ability to measure voltage, current, and power (at a sample rate of approximately one read/second)
- LED indicators:
 - Power (green) and activity (amber) on front of module for each slot
 - CPU heartbeat and dual-port PCIe on the backside of module

4-BAY EDSFF 1U SHORT PLUG-IN MODULE TYPES

For Installation in Expandable Desktop Appliance	
	
 4-Bay EDSFF 1U Short Plug-In Module	
PCIe Gen4 4-Bay Single-Port NVMe EDSFF 1U Short Module for installation in Expandable Desktop Appliance	
<ul style="list-style-type: none"> • Tests up to four, single-port, EDSFF 1U short NVMe drives that use a x4 (1C) SFF-TA-1002 connector • Includes internal HIB and cables for NVMe drive communication with the appliance • One-year hardware/software support 	OGT-MES401E-G4
PCIe Gen4 4-Bay Dual-Port NVMe EDSFF 1U Short Module for installation in Expandable Desktop Appliance	
<ul style="list-style-type: none"> • Tests up to four, dual-port, EDSFF 1U short NVMe drives that use a x4 (1C) SFF-TA-1002 connector • Includes internal HIB and cables for NVMe drive communication with the appliance • One-year hardware/software support 	OGT-MES402E-G4
For Installation in Left Compartment of 3U Rackmount Appliance	
	
 4-Bay EDSFF 1U Short Plug-In Module	
PCIe Gen4 4-Bay Single-Port NVMe EDSFF 1U Short Module for installation in Left Compartment of 3U Rackmount Appliance	
<ul style="list-style-type: none"> • Tests up to four, single-port, EDSFF 1U short NVMe drives that use a x4 (1C) SFF-TA-1002 connector • Includes internal HIB and cables for NVMe drive communication with the appliance • One-year hardware/software support 	OGT-MES401L-G4
PCIe Gen4 4-Bay Dual-Port NVMe EDSFF 1U Short Module for installation in Left Compartment of 3U Rackmount Appliance	
<ul style="list-style-type: none"> • Tests up to four, dual-port, EDSFF 1U short NVMe drives that use a x4 (1C) SFF-TA-1002 connector • Includes internal HIB and cables for NVMe drive communication with the appliance • One-year hardware/software support 	OGT-MES402L-G4
For Installation in Right Compartment of 3U Rackmount Appliance	
	
 4-Bay EDSFF 1U Short Plug-In Module	
PCIe Gen4 4-Bay Single-Port NVMe EDSFF 1U Short Module for installation in Right Compartment of 3U Rackmount Appliance	
<ul style="list-style-type: none"> • Tests up to four, single-port, EDSFF 1U short NVMe drives that use a x4 (1C) SFF-TA-1002 connector • Includes internal HIB and cables for NVMe drive communication with the appliance • One-year hardware/software support 	OGT-MES401R-G4
PCIe Gen4 4-Bay Dual-Port NVMe EDSFF 1U Short Module for installation in Right Compartment of 3U Rackmount Appliance	
<ul style="list-style-type: none"> • Tests up to four, dual-port, EDSFF 1U short NVMe drives that use a x4 (1C) SFF-TA-1002 connector • Includes internal HIB and cables for NVMe drive communication with the appliance • One-year hardware/software support 	OGT-MES402R-G4

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