

# E-Series 12-Bay U.2 Enclosures for PCIe Gen4

OGT-EU12P-01-G4, OGT-EU12P-02-G4, OGT-EU12S-01-G4

When connected to an OakGate expandable desktop or 3U rackmount appliance, the E-Series 12-Bay U.2 Enclosure for PCIe Gen4 allows testing for up to twelve NVMe or SAS/SATA solid state drives (SSDs) that use a U.2/SFF-8639 connector. 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.

The front panel of the 12-bay U.2 Enclosure provides access to the slots and LEDs (activity and power) for the SSDs, as shown in Figure 1. The back panel of the enclosure has the connectors for cables that interface between the SSDs and the host card(s) in the appliance. Figure 2 shows the back panel of a 12-Bay Dual-Port NVMe U.2 Enclosure. Two SFF-8644 to SFF-8644 connector cables are used to interface between the dual-port NVMe SSDs and the two host interface boards (HIBs), installed in the appliance.

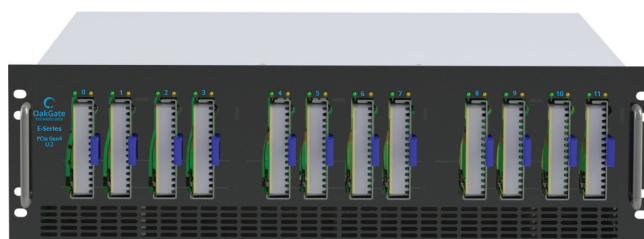


Figure 1. 12-Bay U.2 Enclosure for PCIe Gen4

## FEATURES

- PCI Express® 4.0 (PCIe Gen4) compatible
- Supports all major storage protocols including: NVMe, NVMe-MI (standard and basic), SAS, SATA, and AHCI
- Supports single/dual-port NVMe, single/dual-port 12G SAS, and single-port 6G SATA SSDs that use a U.2/SFF-8639 connector
- 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 and current for each port/device (at a sample rate of approximately one read per second)
  - Ability to measure power under various low power states (at a sample rate of approximately one read per second)
- LED indicators: power (green) and activity (amber) on front of enclosure
- Simple, tool-less device replacement
- Rack-mountable using the included rack-rail kit



Bottom P1-P4 SFF-8644 Connectors for Single Port or Dual-Port NVMe SSDs  
Top P1-P4 SFF-8644 Connectors for Dual-Port NVMe SSDs

Figure 2. Back View of the 12-Bay Dual-Port NVMe U.2 Enclosure (OGT-EU12P-02-G4)

## SPECIFICATIONS

ENCLOSURE DIMENSIONS	
Chassis Dimensions:	17.5" W × 5.25" (3U) × 20" D
POWER SPECIFICATIONS	
Power Supply	850W
Maximum Drive Power	40W per drive

## APPLIANCE CONFIGURATION EXAMPLE

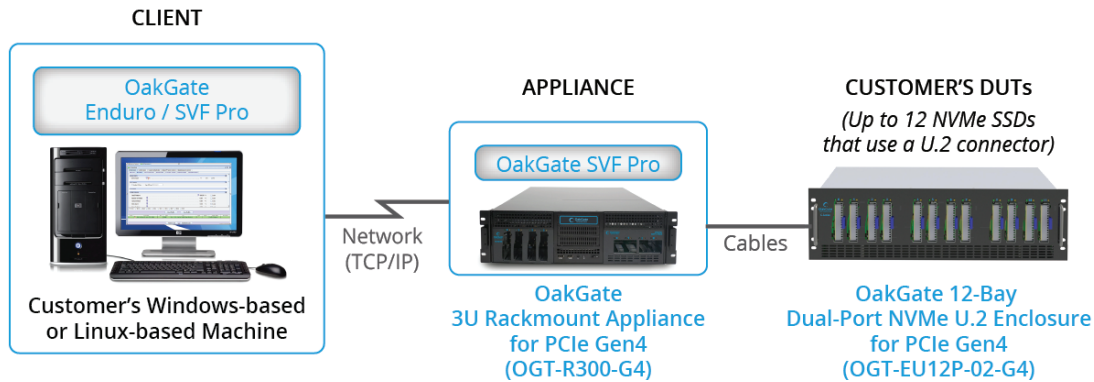


Figure 3. SVF Pro / Enduro Running the 3U Rackmount Appliance Connected to a 12-Bay Dual-Port NVMe U.2 Enclosure

## 12-BAY U.2 ENCLOSURE TYPES

12-Bay Single-Port NVMe U.2 Enclosure (OGT-EU12P-01-G4)	12-Bay Dual-Port NVMe U.2 Enclosure (OGT-EU12P-02-G4)	12-Bay SAS/SATA U.2 Enclosure (OGT-EU12S-01-G4)
Accommodates up to 12 single-port NVMe SSDs	Accommodates up to 12 dual-port NVMe SSDs	Accommodates up to 12 single/dual-port 12G SAS and single-port 6G SATA SSDs
Supported with an Expandable Desktop Appliance for PCIe Gen4 or a 3U Rackmount Appliance for PCIe Gen4.		
Includes: <ul style="list-style-type: none"> <li>• 12-bay U.2 enclosure</li> <li>• 12 device carriers</li> <li>• External host interface board (HIB), installed in the appliance</li> <li>• External SFF-8644 (4 connectors) to SFF-8644 (4 connectors) cable for NVMe SSD connections</li> <li>• USB cable</li> <li>• Power cord</li> <li>• Rack-rail kit</li> <li>• One-year hardware/software support</li> </ul>	Includes: <ul style="list-style-type: none"> <li>• 12-bay U.2 enclosure</li> <li>• 12 device carriers</li> <li>• Two external HIBs, installed in the appliance</li> <li>• Two external SFF-8644 (4 connectors) to SFF-8644 (4 connectors) cables for dual-port NVMe SSD connections</li> <li>• USB cable</li> <li>• Power cord</li> <li>• Rack-rail kit</li> <li>• One-year hardware/software support</li> </ul>	Includes: <ul style="list-style-type: none"> <li>• 12-bay U.2 enclosure</li> <li>• 12 device carriers</li> <li>• Three SAS/SATA HBAs, installed in the appliance</li> <li>• Six external HD mini-SAS SFF-8644 cables for SAS/SATA SSD connections</li> <li>• USB cable</li> <li>• Power cord</li> <li>• Rack-rail kit</li> <li>• One-year hardware/software support</li> </ul>

## ORDERING INFORMATION

PRODUCT DESCRIPTION	MODEL NUMBER
<b>E-SERIES 12-BAY U.2 ENCLOSURES for PCIE GEN4</b>	
12-Bay Single-Port NVMe U.2 Enclosure for PCIe Gen4	OGT-EU12P-01-G4
12-Bay Dual-Port NVMe U.2 Enclosure for PCIe Gen4	OGT-EU12P-02-G4
12-Bay SAS/SATA U.2 Enclosure for PCIe Gen4	OGT-EU12S-01-G4
<b>COMPATIBLE D-SERIES and R-SERIES APPLIANCES</b>	
Expandable Desktop Appliance for PCIe Gen4	OGT-DE100-G4
3U Rackmount Appliance for PCIe Gen4	OGT-R300-G4
<b>COMPATIBLE A-SERIES ADD-ONS</b>	
PCIe Power Interposer Card for some appliances and enclosures	OGT-AP100

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