

E-Series 12-Bay U.3 Enclosures for PCIe Gen4

OGT-EU3-12P-01-G4, OGT-EU3-12P-02-G4

When connected to an OakGate expandable desktop or 3U rackmount appliance, the E-Series 12-Bay U.3 Enclosure for PCIe Gen4 allows testing for up to twelve NVMe solid state drives (SSDs) that use a U.3 (SFF-TA-1001) 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.3 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.3 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.

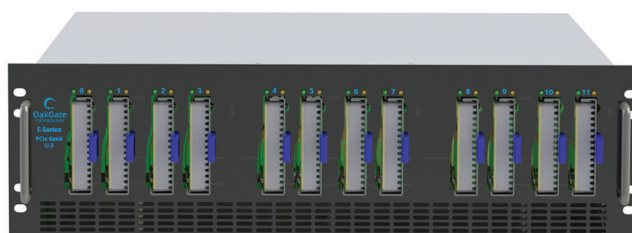


Figure 1. 12-Bay U.3 Enclosure for PCIe Gen4



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.3 Enclosure (OGT-EU3-12P-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

FEATURES

- PCI Express® 4.0 (PCIe Gen4) compatible
- Supports NVMe and NVMe-MI (standard and basic)
- Supports single/dual-port NVMe SSDs that use a U.3 (SFF-TA-1001) 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

APPLIANCE CONFIGURATION EXAMPLE

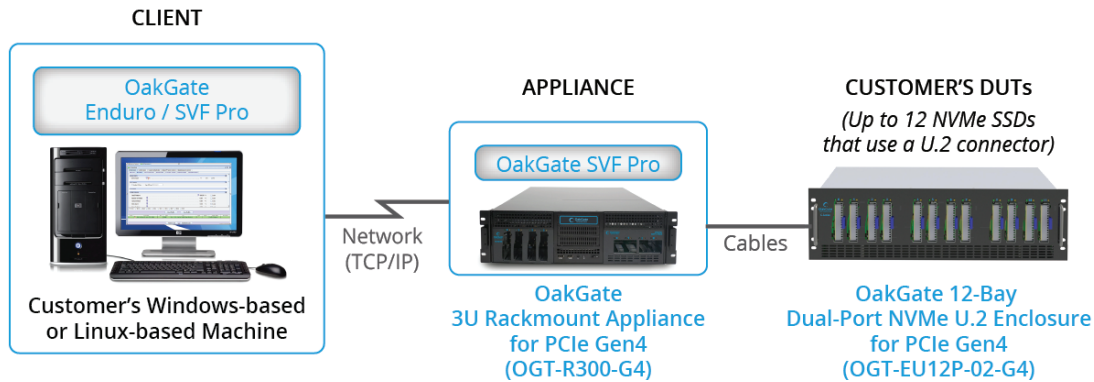


Figure 3. SVF Pro / Enduro Running the 3U Rackmount Appliance Connected to a 12-Bay Dual-Port NVMe U.3 Enclosure

12-BAY U.3 ENCLOSURE TYPES

12-Bay Single-Port NVMe U.3 Enclosure (OGT-EU3-12P-01-G4)	12-Bay Dual-Port NVMe U.3 Enclosure (OGT-EU3-12P-02-G4)
Accommodates up to 12 single-port NVMe SSDs	Accommodates up to 12 dual-port NVMe 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"> • 12-bay U.3 enclosure • 12 device carriers • USB cable • Power cord • External host interface board (HIB), installed in the appliance • External SFF-8644 (4 connectors) to SFF-8644 (4 connectors) cable for NVMe SSD connections • Rack-rail kit • One-year hardware/software support 	Includes: <ul style="list-style-type: none"> • 12-bay U.3 enclosure • 12 device carriers • USB cable • Power cord • Two external HIBs, installed in the appliance • Two external SFF-8644 (4 connectors) to SFF-8644 (four connectors) cables for dual-port NVMe SSD connections • Rack-rail kit • One-year hardware/software support

ORDERING INFORMATION

PRODUCT DESCRIPTION	MODEL NUMBER
E-SERIES 12-BAY U.3 ENCLOSURES for PCIE GEN4	
12-Bay Single-Port NVMe U.3 Enclosure for PCIe Gen4	OGT-EU3-12P-01-G4
12-Bay Dual-Port NVMe U.3 Enclosure for PCIe Gen4	OGT-EU3-12P-02-G4
COMPATIBLE D-SERIES and R-SERIES APPLIANCES	
Expandable Desktop Appliance for PCIe Gen4	OGT-DE100-G4
3U Rackmount Appliance for PCIe Gen4	OGT-R300-G4
COMPATIBLE A-SERIES ADD-ONS	
PCIe Power Interposer Card for some appliances and enclosures	OGT-AP100

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