

## E-Series 12-Bay U.2 Enclosures

**OGT-EU12P-01, OGT-EU12P-02, OGT-EU12S-12,  
OGT-EU12M-01, OGT-EU12M-02**

The E-Series 12-Bay U.2 Enclosures provide a simple, flexible way to test several mixed-protocol SSDs. When connected to an OakGate expandable desktop or 3U rackmount appliance, the 12-bay enclosure allows up to twelve devices under test (DUTs). Depending on the type of 12-bay enclosure, the DUTs include single or dual-port NVMe, SAS, and SATA 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.

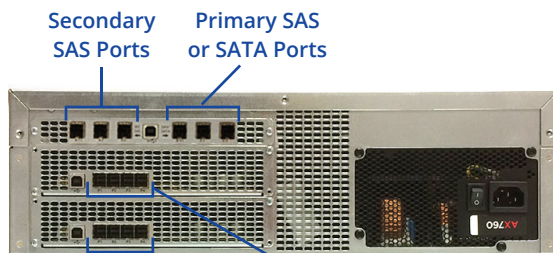
The front panel of the 12-Bay U.2 Enclosure, provides access to the slots and LEDs (activity and power) for the DUTs. The back panel of the enclosure contains the appliance cable connections for the NVMe/SAS/SATA DUTs, as well as the ON/OFF switch and power connector.



**Figure 1. Front View of the 12-Bay U.2 Enclosure**

### FEATURES

- 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



Secondary SAS Ports      Primary SAS or SATA Ports

Bottom P1-P4 Connectors for Single Port or Dual-Port NVMe DUTs      Top P1-P4 Connectors for Dual-Port NVMe DUTs

**Figure 2. Back View of the 12-Bay U.2 Enclosure**

### SPECIFICATIONS

ENCLOSURE DIMENSIONS	
Chassis Dimensions:	17.5" W × 5.25" (3U) × 20" D
POWER SPECIFICATIONS	
Power supply:	760W
Maximum drive power:	40W per drive

## 12-BAY U.2 ENCLOSURE TYPES

12-Bay Single-Port NVMe U.2 Enclosure (OGT-EU12P-01)	12-Bay Dual-Port NVMe U.2 Enclosure (OGT-EU12P-02)	12-Bay SAS/SATA U.2 Enclosure (OGT-EU12S-01)	12-Bay Multi-Protocol, Single-Port NVMe U.2 Enclosure (OGT-EU12M-01)	12-Bay Multi-Protocol, Dual-Port NVMe U.2 Enclosure (OGT-EU12M-02)
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	Accommodates up to 12 single-port NVMe, single/dual-port 12G SAS, and single-port 6G SATA SSDs	Accommodates up to 12 dual-port NVMe, single/dual-port 12G SAS, and single-port 6G SATA SSDs
Supported with an expandable desktop or 3U rackmount appliance.	Supported with a 3U rackmount appliance only.	Supported with an expandable desktop or 3U rackmount appliance.	Supported with an expandable desktop or 3U rackmount appliance.	Supported with a 3U rackmount appliance only.
Includes: <ul style="list-style-type: none"> <li>12-bay U.2 enclosure</li> <li>12 device carriers</li> <li>USB cable</li> <li>Power cord</li> <li>NVMe x16 host card (installed in appliance)</li> <li>iPass/SFF-8644 (x4) cable</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>USB cable</li> <li>Power cord</li> <li>Two NVMe x16 host cards (installed in appliance)</li> <li>Two iPass/SFF-8644 (x4) cables</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>USB cable</li> <li>Power cord</li> <li>Three SAS/SATA HBAs (installed in appliance)</li> <li>Six external HD mini-SAS SFF-8644 cables</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>USB cable</li> <li>Power cord</li> <li>NVMe x16 host card (installed in appliance)</li> <li>iPass/SFF-8644 (x4) cable</li> <li>Three SAS/SATA HBAs (installed in appliance)</li> <li>Six external HD mini-SAS SFF-8644 cables</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>USB cable</li> <li>Power cord</li> <li>Two NVMe x16 host cards (installed in appliance)</li> <li>Two iPass/SFF-8644 (x4) cable</li> <li>Three SAS/SATA HBAs (installed in appliance)</li> <li>Six external HD mini-SAS SFF-8644 cables</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</b>	
12-Bay Single-Port NVMe U.2 Enclosure	OGT-EU12P-01
12-Bay Dual-Port NVMe U.2 Enclosure	OGT-EU12P-02
12-Bay SAS/SATA U.2 Enclosure	OGT-EU12S-01
12-Bay Multi-Protocol, Single-Port NVMe U.2 Enclosure	OGT-EU12M-01
12-Bay Multi-Protocol, Dual-Port NVMe U.2 Enclosure	OGT-EU12M-02
<b>COMPATIBLE D-SERIES and R-SERIES APPLIANCES</b>	
Expandable Desktop Appliance (not applicable for 12-bay dual-port NVMe U.2 enclosures)	OGT-DE100
3U Rackmount Appliance	OGT-R300
<b>COMPATIBLE A-SERIES ADD-ONS</b>	
PCIe Power Interposer Card for some appliances and enclosures	OGT-AP100

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