

R-Series 3U Rackmount Appliance

OGT-R300

The R-Series 3U Rackmount Appliance is a robust, versatile test system designed to support all popular storage interfaces and protocols, such as PCIe, SAS, and SATA. As the name implies, the 3U Rackmount Appliance fits in a standard 19-inch rack enclosure at a 3U height.

The 3U Rackmount Appliance is designed to meet the demands for high-density scaling with its six internal backplane PCIe slots (three x16 and three x8). These slots can be used to connect to a variety of external enclosures, such as the OakGate 12-bay U.2 enclosure. They can also be used for "in-appliance" testing," such as testing NVMe add-in cards or connecting to the optional OakGate 4-bay U.2 plug-in modules to test 2.5inch U.2 SSDs. Figure 2 shows the appliance equipped with two 4-bay modules.

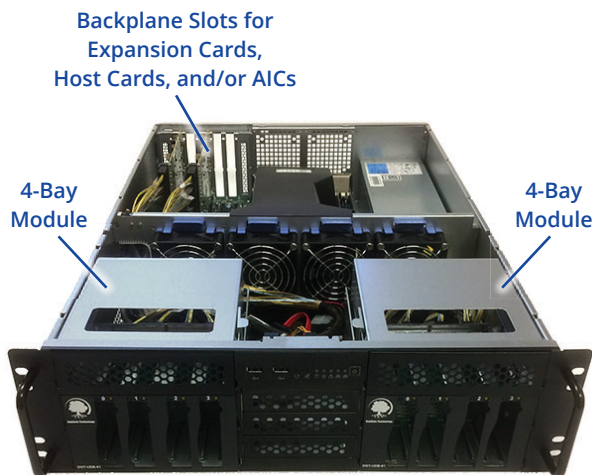


Figure 2. 3U Rackmount Appliance with 4-Bay Modules

The 3U Rackmount Appliance is powered by the OakGate Storage Validation Framework Pro (SVF Pro) engine, the industry's most advanced storage-testing software. The robust SVF software, now in its fourth generation, offers a comprehensive set of testing features and capabilities.



Figure 1. Front View of the 3U Rackmount Appliance

FEATURES

- Intel Xeon dual-socket, eight-core processor, 3.20 GHz
- 64GB DDR4 ECC system memory
- Six PCIe Gen3 expansion slots:
 - Three x16 slots
 - Three x8 slots
- Provides support for up to two 4-bay U.2 plug-in modules
- Ability to run unique tests on each SSD 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)
- Chassis Dimensions: ~ 19" W x 26" L x 5.5" H
- Powered by SVF Pro with the state-of-the-art Enduro controller application
- One-year hardware/software support

APPLIANCE CONFIGURATION EXAMPLE

The following figure shows a configuration for testing up to twelve multi-protocol (NVMe/SAS/SATA) SSDs that use a U.2 (SFF-8639) connector. It shows the client, with the OakGate Enduro controller application and SVF Pro, directing the OakGate 3U rackmount appliance (OGT-R300). This appliance is connected to an OakGate 12-bay multi-protocol U.2 enclosure (OGT-EU12M-01 or OGT-EU12M-02).

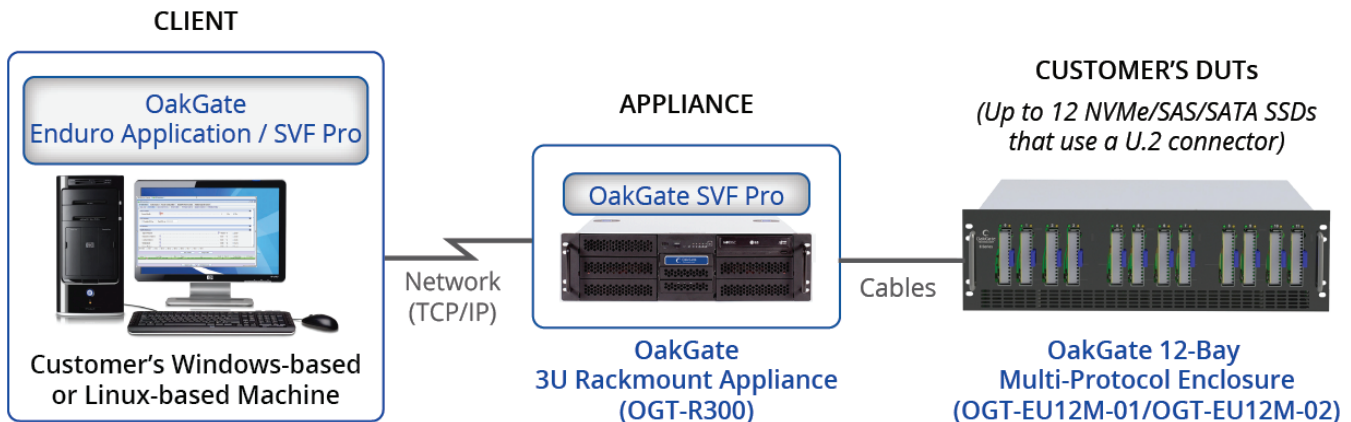


Figure 3. SVF Pro/Enduro Running the 3U Rackmount Appliance Connected to a 12-Bay U.2 Enclosure

ORDERING INFORMATION

PRODUCT DESCRIPTION	MODEL NUMBER
R-SERIES APPLIANCE	
3U Rackmount Appliance	OGT-R300
COMPATIBLE M-SERIES MODULES	
4-Bay Single-Port NVMe U.2 Plug-In Module	OGT-MU401
4-Bay Dual-Port NVMe U.2 Plug-In Module	OGT-MU402
4-Bay Multi-protocol U.2 Plug-In Module	OGT-MU403
COMPATIBLE A-SERIES ADD-ONS	
12G SAS/6G SATA Host Bus Adapter with Eight Ports	OGT-AH101
NVME x16 Host Card	OGT-AH106
8GB ECC System Memory	OGT-AM-108
COMPATIBLE E-SERIES U.2 ENCLOSURES for 2.5" SSDs	
12-Bay NVMe U.2 Enclosures Single-Port (or Dual-Port) NVMe	OGT-EU12P-01 (or OGT-EU12P-02)
12-Bay NVMe U.2 Enclosures Single-Port (or Dual-Port) NVMe	OGT-EU12P-01 (or OGT-EU12P-02)
12-Bay SAS/SATA U.2 Enclosure	OGT-EU12S-12
12-Bay Multi-Protocol U.2 Enclosures Single-Port (or Dual-Port) NVMe	OGT-EU12M-01 (or OGT-EU12M-02)
12-Bay Multi-Protocol U.2 Enclosures Single-Port (or Dual-Port) NVMe	OGT-EU12M-01 (or OGT-EU12M-02)

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