QuantaGrid Series
S51G-1UL

Quanta®

The Densest 1U Computing Scale Out Storage Server

- Densest 1U Scale Out Computing Storage Server
- Balanced Computing and High Density Platform
- Aggregated and Optimized Data Latency
- Flexible I/O Scalability

QuantaGrid S51G-1UL is an ultra-dense 1U compute storage server ideally designed to meet the scale-out storage needs of diverse datacenters. It features large storage capacity of up to 12 SATA devices in compact 1U size, cost effective onboard SAS controller design, and Intel®'s Xeon E5-2600 v2 Family high performance & efficient power processor. The QuantaGrid S51G-1UL is a ideal choice for applications those request optimized latency and highly scalable open stack storage solution in cloud datacenters.

Balanced High Computing and Large Storage in 1U Space

The use of Big Data is becoming a crucial way for leading companies to outperform their peers. In addition to the sheer scale of Big Data, to fulfill the real-time and high-frequency nature of the data are also critical. QuantaGrid S51G-1UL is created as a harmonious platform with high computing power and large storage capacity. It is a standard 1U rack mount server, amazingly supports up to 12 SATA 3.5" disks and one optional SATADOM. It provides unprecedented computing and storage capacity combination in a 1U chassis for diverse datacenters. Moreover, the system eliminates unnecessary features and positioned itself as a pure storage server, powered by Intel® Xeon® processor E5-2600 v2 Family and supporting eight DDR3 RDIMMs.

Bring You the Most Efficiency with Onboard Design

QuantaGrid S51G-1UL not only deliver balanced computing and capacity, but also highly increases the efficiency because of its built-on-board design. All key functions are built on the motherboard, including two 1GbE RJ45 ports, one dedicated RJ45 management port, one optional 10GbE SFP+ port for high speed data access demand, also integrated with one OCP LAN Mezz for additional flexible I/O configuration. Onboard SATA ports with LSI 2308 SAS controller for various storage devices. The exceptional design makes all components work smoothly together. Plus one fixed 400W or two redundant 450W 80plus gold power supply modules, the QuantaGrid S51G-1UL can be remarked as one of the most versatile server ever.

About Quanta Cloud Technology (QCT)

Quanta Cloud Technology (QCT) provides advanced hardware systems to cloud datacenters worldwide. Product lines include servers, storage, network switches, and integrated rack systems. QCT customers want the same innovative cloud hardware technology in use by hyperscale cloud datacenter operators, but in off-the-shelf SKUs with global services. QCT sells cloud hardware that delivers hyperscale performance, efficiency and advanced engineering, with flexible product configuration, rack integration, performance tuning and engineering consulting services to help customers deploy optimized cloud solutions for their unique cloud workloads.

QCT's parent is Quanta Computer, Inc., a Fortune Global 500 company with more than 100,000 employees located at engineering, manufacturing and services facilities worldwide.

QuantaGrid Series
S51G-1UL

Intel® inside™ XEON®

Form Factor	1U Rack Mount
Dimensions	W x H x D (inch) : 17.2 x 1.7 x 32.0 W x H x D (mm) : 438 x 43 x 813
Expansion Slot	(1) PCIe Gen3 x16 slot (full height)
Storage	(12) 3.5" or 2.5" fixed SAS/SATA
Power Supply	(2) High efficiency 450W Redundant PSUs, 80plus gold
Fan	(5) System Fans
System Magement	IPMI v2.0 Compliant, on board "KVM over IP" support
Operating Environment	Operating temperature: 10℃ to 35℃ (50°F to 95°F) Non-operating temperature: -40℃ to 70℃ (-40°F to 158°F) Operating relative humidity: 50% to 90%RH Non-operating relative humidity: 20% to 95%RH
Processor	Processor Type : Intel® Xeon® processor E5-2600 v2 product family Max. TDP Support : 95W Number of Processors : 1
Chipset	Intel® C602
Memory	Total Slots : 8 Capacity : Up to 196GB LRDIMM Memory Type : 1866/1600/1333 MHz RDIMM/LRDIMM Memory Size : 32GB, 16GB, 8GB
Storage Controller	Onboard : (1) LSI 2308 SAS Controller
Network Controller	LOM : (1) Intel® I350 dual port 1 GbE (1) Intel® 82599 10Gb single port SFP+ Dedicated 10/100/1000 management port Optiol NIC : QCT Intel® i350 dual-port OCP mezzanine QCT Intel® 82599ES dual-port 10G SFP+ OCP mezzanine
Onboard Storage	(1) SATADOM
Video	Integrated AST2300 with 8MB DDR3 Video memory
Rear I/O	(4) USB 2.0 ports (1) VGA port (1) RS232 serial port (2) GbE RJ45 ports (1) 10/100/1000 RJ45 management port (1) 10GbE SFP+ onboard port (1) ID button with LED
TPM	Yes (option)

Quanta®
Optimize Your Datacenter