

QuantaGrid Q71L-4U

Powerful enterprise grade
4U 4-socket server with
unprecedented RAS and
scalability



- Unsurpassed Computing Power supporting up to Four Intel® Xeon® E7-4800 v3/ E7-8800 v3 series
- Extraordinary memory capacity with up to 96 DIMM slots
- SAS 3.0 ready & NVMe PCIe SSDs support
- Astonishing expandability with 10 standard PCIe 3.0 slots & 3 mezzanine slots



Large enterprises and service providers supporting mission-critical applications and big data analytics in real time require servers with massive memory and performance to capitalize on trends as they emerge. They also want the higher densities, energy savings and serviceability enjoyed by hyperscale cloud datacenters.

To fill this emerging and growing market, QuantaGrid Q71L-4U. The 4U, four-way server uses the Intel® Xeon® processor E7-4800/ 8800 v3 product family with up to 18 cores per processor, totaling 60 cores and 120 threads per system. The server offers a combination of reliability, high I/O throughput, expandability, efficiency and serviceability that until now were difficult to achieve in the enterprise datacenter.

Unsurpassed system performance

QuantaGrid Q71L-4U is powered by Intel® Xeon® E7-4800/ 8800 v3 based processors using state-of-the-art 22nm manufacturing technology, with up to 18 cores per processor (or a total of 72 cores per system).

Reliability

Equipped with Intel® Run Sure Technology, the most advanced RAS features for the Intel® Xeon® E7 family. QuantaGrid Q71L-4U reduces planned and unplanned downtime to protect data integrity, which is vital to mission-critical services and enhances data center efficiency.

Significant I/O throughput and scalability

96 DDR4 DIMM slots designed to achieve platform limitation by capitalizing the Intel Scalable Memory Buffer's capability to its maximum. In addition to the ten PCIe 3.0 slots with their astonishing expandability, the four hot-swap PCIe slots among them further enhance expandability with serviceability. The 11th slot is dedicated for QCT storage mezzanine to offer

cost-efficient SAS/RAID support option. Twelve 2.5" 12Gb/s-ready hot-plug hard disk drives (two supporting NVMe-ready PCIe SSDs) deliver ultra-low latency cache, best for data demanding and transaction-intensive workloads, such as in-memory or business analytics.

Serviceability

QuantaGrid Q71L-4U is designed with serviceability in mind throughout the whole development process. Its powerful serviceability features include:

- Front access to twelve hot-plug hard disk drives
- Four hot-swap PCIe slots
- Easy-to-maintain hot-swap fans
- LED indicator on each fan module
- Rear access to hot-swap power supply modules
- Bi-color LED indicator on each power supply module
- System power and system status LEDs
- System ID buttons and LEDs on front and rear system panels
- Color-coded parts to identify serviceable components

Best for

- Business-critical applications (ERP/ CRM, etc.)
- Enterprise back-end or in-memory databases
- Server virtualization/consolidation
- Financial service
- SAP

About QCT

QCT (Quanta Cloud Technology) is a global datacenter solution provider extending the power of hyperscale datacenter design in standard and open SKUs to all datacenter customers.

Product lines include servers, storage, network switches, integrated rack systems and cloud solutions, all delivering hyperscale efficiency, scalability, reliability, manageability, serviceability and optimized performance for each workload.

QCT offers a full spectrum of datacenter products and services from engineering, integration and optimization to global supply chain support, all under one roof.

The parent of QCT is Quanta Computer Inc., a Fortune Global 500 technology engineering and manufacturing company.

QuantaGrid Q71L-4U



Found at:
www.QuantaQCT.com/wheretobuy

United States
QCT LLC., Silicon Valley office
1010 Rincon Circle, San Jose, CA 95131
TOLL-FREE: 1-855-QCT-MUST
TEL: +1-510-270-6111
FAX: +1-510-270-6161
Support: +1-510-270-6216

China
云达科技,北京办公室 (Quanta Cloud Technology)
Room 1508, East Tower 15F, World Financial Center, No.1, East 3rd Ring Zhong Rd., Chaoyang District, Beijing, China
TEL: +86-10-5920-7600
FAX: +86-10-5981-7958

云达科技,杭州办公室 (Quanta Cloud Technology)
Room 303, Building No.4, ZheShang Wealth Center, No.83, GuDun Rd., Xihu District, Hangzhou, Zhejiang, China
TEL: +86-571-2819-8650

Japan
Quanta Cloud Technology Japan 株式会社
Makita Building 3F, 2-5-8, Shibadaiimon, Minato-ku, Tokyo 105-0012, Japan
TEL: +81-3-5777-0818
FAX: +81-3-5777-0819

Taiwan
雲達科技 (Quanta Cloud Technology)
1F, No. 211 Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan
TEL: +886-3-286-0707
FAX: +886-3-327-0001

Other regions
Quanta Cloud Technology
No. 211 Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan
TEL: +886-3-327-2345
FAX: +886-3-397-4770

QCT authorized partner

All specifications and figures are subject to change without prior notice. Actual products may look different from the photos.

QCT, the QCT logo, Rackgo, Quanta, and the Quanta logo are trademarks or registered trademarks of Quanta Computer Inc.

All trademarks and logos are the properties of their representative holders.
Copyright © 2014-2015 Quanta Computer Inc. All rights reserved.

Processor	Processor Type: Intel® Xeon® processor E7-4800 v2/ E7-4800 v3/ E7-8800 v3 product family Max. TDP Support: 165W Number of Processors: 4 Internal Interconnect: 6.4 / 7.2 / 8.0 GT/s L3 Cache: Up to 37.5MB
Chipset	Intel® C602J
Memory	Total Slots: 96 Capacity: Up to 1536GB RDIMM Up to 3072GB LRDIMM Memory Type: E7-4800 v2: 1600/1333 MHz DDR3 RDIMM E7-4800 v3: 1866 MHz DDR4 RDIMM E7-8800 v3: 1866 MHz DDR4 RDIMM Memory Size: E7-4800 v2 : 64GB, 32GB, 16GB, 8GB DDR3 RDIMM E7-4800 v3/E7-8800 v3 : 32GB, 16GB, 8GB DDR4 RDIMM (64G DDR4 RDIMM will be ready one quarter after launch)
Network Controller	LOM: Option 1: Intel® I350 dual-port 1 GbE Dedicated 1 GbE management port Option 2: Intel® X540 dual-port 10GbE BASE-T Dedicated 1 GbE management port Optional NIC (more options refer to the CCL): Please refer to our Compatible Component List for more information
Storage Controller	Onboard: Intel® 602J: (4) SATA 3Gb/s ports (2) SATA 6Gb/s ports SATA RAID 0, 1, 5, 10 Optional Controller (more options refer to the CCL): Please refer to our Compatible Component List for more information
Onboard Storage	(2) USB flash drives
Video	Integrated AST2300 with 8MB DDR3 video memory (option)
Rear I/O	(2) USB 2.0 ports (1) VGA port (1) RS232 serial port (2) 1 GbE or 10G BASE-T RJ45 port (1) GbE RJ45 management port
TPM	Yes (With TPM 1.2 option)
Form Factor	4U Rack Mount
Dimensions	W x H x D (inch): 16.69 x 6.8 x 27.71 W x H x D (mm): 424 x 174 x 704
Storage	(12) 2.5" hot-plug (*up to (2) hot-plug PCIe SSD support)
Expansion Slot	(2) PCIe Gen3 x16, HH 3/4L ((1) has HS feature) (8) PCIe Gen3 x8, HHHH ((3) has HS feature) (1) PCIe Gen3 x8 dedicated storage mezzanine slot (1) PCIe Gen3 x8 dedicated network mezzanine slot
Optical Drive	SATA DVD-ROM
Front I/O	(3) USB 2.0 ports (1) VGA port
Power Supply	2+2 High efficiency redundant 1600W PSU, 80 plus platinum
Fan	(8) hot-plug system fans
System Management	IPMI v2.0 Compliant, on board "KVM over IP" support Quanta Datacenter Manager 2.0/QDCM 2.0 (optional)
Operating Environment	Operating temperature: 5°C to 35°C (41°F to 95°F) Non-operating temperature: - 40°C to 65°C (-40°F to 149°F) Operating relative humidity: 20% to 85%RH. Non-operating relative humidity: 10% to 90%RH
Weight (Max. Configuration)	34.68 (kg) 76.46 (lbs)



Intel Inside®. Powerful Data Center Outside.

Intel, the Intel logo, Xeon, and Xeon Inside are trademarks or registered trademarks of Intel Corporation in the U.S. and/or other countries.