

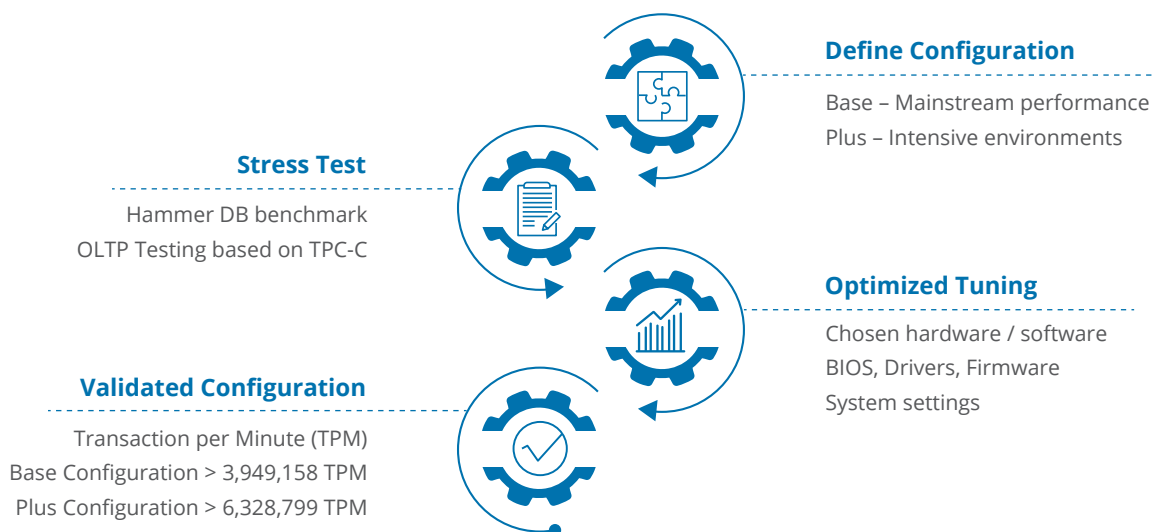
QCT SQL Server 2016 Appliance With New Intel® Xeon® Scalable Processors



Today's ever-changing business world relies more than ever on data collection and analysis, while the quantity, size, and complexity of workloads increase almost every day. To help customers thrive in such dynamic scenarios, QCT and Intel are delivering Intel Select Solution for Microsoft SQL Server 2016. Intel Select Solutions are hardware and software stacks optimized for specific workloads. QCT and Intel highlight this optimized performance on configurations using Intel® Xeon® Scalable processors and QCT high efficiency compute servers to help ensure enterprises receive their needed performance.

Reliable, secure, and workload-optimized stack backed by QCT and Intel architecture

Intel Select Solution for Microsoft SQL Server 2016 can help minimize the time, cost, and complexity required for an enterprise to evaluate hardware and software integrations. QCT SQL Server 2016 Appliance includes a hardware and software stack that has been verified following organized procedures and intensive testing efforts by QCT and Intel. QCT uses the HammerDB benchmark to validate the configuration for Online Transaction Processing (OLTP). Furthermore, based on the Transactions Per Minute (TPM) metric, QCT SQL Server 2016 Appliance has considerably outperformed Intel standards on both base and plus configuration.



Intel Select Solutions Base and Plus configuration for QCT SQL Server 2016 Appliance

Plus Configuration:

Plus configuration is designed for mission-critical, intensive analytic workload environments. With all-NVMe SSDs on both data and log drives, it can provide excellent performance for database transactions and queries. Also, the large capacity of memory spaces can work well with SQL Server in-memory OLTP technology to provides significant performance boost when the hot data can become fully resident in RAM.

Base Configuration:

Base configuration is a good fit for mainstream database application with consideration for better TCO. We choose Intel® Xeon® Gold 6136 CPU (3.00GHz / 12C) along with the SSDs on data drives that can provide good performance under attractive price / performance ratio.

Detailed product specifications for Base and Plus configurations



Found at: www.QCT.io/wheretobuy

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QCT authorized partner

Ingredient	Intel Select Solution Plus Configuration	Intel Select Solution Base Configuration
Platform	Quanta D52B-1U Server	Quanta D52BQ-2U Server
Processor	2 x Intel® Xeon® Gold 6152 CPU @ 2.10GHz / 22C / 44T	2 x Intel® Xeon® Gold 6136 CPU @ 3.00GHz / 12C / 24T
Memory	384GB (12 * 32GB 2666MHz DDR4 RDIMM)	384GB (12 * 32GB 2666MHz DDR4 RDIMM)
Boot Drive	2 x 512GB PCIe M.2 SSD	2 x 512GB PCIe M.2 SSD
Log Drive	2 x Intel® SSD DC P4600 Series, 1.6 TB NVMe	4 x Intel® SSD DC P4600 Series, 1.6 TB NVMe
Data Drive	4 x Intel SSD DC P4500 Series, 2 TB NVMe	4 x 1.92 TB SATA SSD
Data Network	40 GbE Intel Ethernet Converged Network Adapter XL710	10 GbE Intel Ethernet Network Connection OCP X527-DA4 / 40 GbE Intel® Ethernet Converged Network Adapter XL710
Management Network	Integrated 1 GbE	Integrated 1 GbE
Software	Windows Server 2016 Datacenter edition / SQL Server 2016 Enterprise edition	Windows Server 2016 Datacenter edition / SQL Server 2016 Enterprise edition
TPM	Trusted Platform Module (TPM) 2.0	Trusted Platform Module (TPM) 2.0

Learn More

QCT: www.qct.io

Intel Select Solutions: intel.com/selectsolutions

Microsoft SQL Server 2016: microsoft.com/en-US/sql-server/sql-server-2016

About QCT

Quanta Cloud Technology (QCT) is a global datacenter solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation datacenter design and operation challenges. QCT serves cloud service providers, telecoms and enterprises running public, hybrid and private clouds.

Product lines include hyper-converged and software-defined datacenter solutions as well as servers, storage, switches, integrated racks with a diverse ecosystem of hardware component and software partners. QCT designs, manufactures, integrates and services cutting edge offerings via its own global network. The parent of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.

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