

Core Systems DL160RS Gen9 Rugged Server



The right balance

The DL160RS Gen9 Rugged Server delivers the right balance of performance, storage, reliability, manageability, and efficiency in a rugged compact chassis. This space-conscious rugged server meets the needs of a diverse set of customers—from Military, Energy, and Aerospace to Oil & Gas.

Addresses the needs of tactical users

Based on Hewlett Packard Enterprise's (HPE) industry leading DL160 Server platform, the Core Systems DL160RS Gen9 Rugged Server is a cost effective, fully rugged compute platform designed to operate in today's most stringent environments. The DL160RS has the latest HPE ProLiant and Intel® Chipset technology offerings, resulting in no compromises and optimal performance for the tactical user.

Offering standard Integrated Lights-Out capabilities for simplified IT infrastructure management, 16 slots for DDR4 memory, eight drives, and two standard NIC ports, the DL160RS Gen9 Rugged Server offers the ideal set of features for meeting your customer's everyday rugged computing needs. The DL160RS Gen9 Rugged Server enables users to start small, and scale easily, as their tactical computing needs grow.

Industry leading rugged compute platform

Faced with an evolving deployment base, DoD, Intel, and civilian customers require an agile IT infrastructure that scales readily and consumes minimal space and energy. To support today's Data Centric Mega Trends—Big Data and cloud computing— tactical users need to optimize their rugged IT environments and move to a distributed computing model where rugged servers are deployed as converged network platforms.

With space and environmentally optimized physical characteristics, such as a 20" chassis depth, 92 percent efficient power supply, inherent support for higher temperatures, dense 1U design, and optional FlexibleLOM capability, the DL160RS Gen9 Rugged Server enables users to minimize the operational costs of energy and space—making it a perfect match for your tactical environment.

Data sheet

Technical specifications

Military Standards¹	Operational Temperature: -10C to +50C with solid state drives, MIL-STD-810F/G, Method 501.5, Procedures I/II Storage: -40C to 75C, MIL-STD-810F/G, Method 501.5, Procedures I/II Humidity, MIL-STD-810F/G, Method 507.4: 48 hour, 95% RH 40-65C with humidity option Altitude, MIL-STD-810F/G, Method 500.4: 12,500ft operation with 40,000ft transport Vibration, MIL-STD-810F/G, Method 514.6 Procedure I: 4.43 GRMS, 5-20000Hzz, 60min/axis w/solid state drives Shock, MIL-STD-810F/G, Method 516.6, Procedures I/V: 20g, 11msec functional shock; 40g 11msec crash hazard shock EMC, MIL-STD-461F/G CE102 & RE102: Meets using CORESYSTEMS Optional 461 EMI Kit MIL-S-901D, Grade A, Class I, Type A
Mechanical	Height - 1.75" (4.45cm), Width- 17.75" (45.10cm), Depth- 20.00"(50.80cm), Weight- 26.5lbs (12kg)
CPU	Intel CPU architecture options, Intel Xeon® E5-2600 v3 and v4 Processor Family, Embedded long-life road map, Upgradable to two processors (total of 24 cores)
Expansion Slots	One full height, two half height 3/4 length slots; multiple PCIe slot combinations available
Drive Bays	8 hot swap removable Drive Bays (2.5" form factor hard drives or SSD's); One slim line SATA CD/DVD (R/W) available with SSDs or SAS HDDs
Storage	16 DIMM Slots (Up to 512GB with 16x32GB DIMMs)
Mounting Options	20" Slide Rails ¹ ; Fixed mounting rails front and rear
Power Supply Options	900W Dual Redundant 110/220 VAC Supply; 700W Single 28VDC Supply

Core Systems resources

www.core-systems.com
888.584.CORE

Services

Let Core Systems help guide you and your business through the rapidly changing IT landscape. Core Systems Services delivers confidence, reduces risk, and helps you realize greater agility and stability.

Core Systems is a premier manufacturer of best-in-class rugged computers and rugged displays. We design and manufacture all of our products in Poway, California. Our 35,000+ square foot facility features onsite engineering, assembly, and test along with a complete metal fabrication and machining facility. Core Systems is one of the only vertically integrated rugged computer manufacturers in the nation. Our diverse family of rugged products are deployed in ground vehicles, aircraft, and maritime installations worldwide.

Learn more at:
core-systems.com/military/dl-160rs.html

¹ CORESYSTEMS designs each server to meet or exceed the military specifications listed in this document. If you require further reference material on our testing documents and procedures please ask your CORESYSTEMS Applications Engineer. Both the chassis and system configuration can be customized to meet specific program requirements.