

GAP-245RL - G5 Series 2U RUGGED SERVER

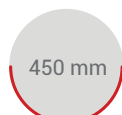


Intel® Xeon® Broadwell-EP

Rear I/O - Rear Power Supply



Platform



Depth



CPU



RAM



SSD



I/O Boards

GAP is a line of rugged servers and workstations with an aluminum construction, designed for applications that require robust and qualified MIL-GRADE equipment, suitable for operations in critical environments.

GAP-245RL G5 rugged servers feature single or dual socket Intel® Xeon® E5 v4 (Broadwell-EP) supporting up to 22 cores (44 threads with Hyper-Threading Technology), up to 55 MB of L3 cache per CPU, up to 2TB 2400MHz DDR4 memories, and 40 PCIe lanes. The integrated IPMI services support monitoring, control, and management functions sending alarm notifications in case of critical events.

GAP-245RL are designed for 19" rackmounting and have a 2U chassis with a depth of 450mm.

The rear I/O and rear power supply layout includes nine removable SSDs and an optional slim DVD.

GAP-245R rugged servers can host six low profile PCIe cards.

In case additional boards are needed they can be provided with dedicated fixings for an optimal protection against shocks and vibrations also during transport.

GAP servers are designed to meet MIL-STD-810F for temperature and shocks, MIL-STD-167-1A for vibrations. Optionally, they can conform to MIL-STD-461 for EMI / EMC. The I/O connectors and the power supply input can be provided with MIL-GRADE connectors upon request.

All units are delivered with their inventory list to ensure configuration control and reproducibility over time. Upon request, all server configurations can run specific thermal or mechanical environmental stress test.

FEATURES

- 2U Rugged Server - 450mm depth
- Single or Dual Processor
- E5 Series Intel® Xeon® processors - Broadwell-EP
- Rear I/O connectors
- Rear Power Input
- Redundant AC or DC Power Supply
- Up to 9 removable 2.5" SSD
- Optional DVD
- Up to 6 Low Profile boards
- Optional Conformal Coating
- MIL-STD-810G
- Optional MIL-STD-461

Technical Specifications

System

Processor	Intel® Xeon® E5-2600 v4/v3 dual socket R3 (LGA 2011)
Memory	Up to 1TB 3DS ECC RDIMM, DDR4-2400MHz
Chipset	Intel® C612
Network	2 x RJ45 Gigabit Ethernet 1 x RJ45 dedicated IPMI
Storage	2.5" SATA Disk - RAID 0, 1, 5, 10
TPM	1 TPM Header
Motherboard I/O	Available at the rear: 1 x VGA; 4 x USB 3.0, 2 x GbE, 1 x IPMI
Expansion slots	Up to 6 PCIe Full Size boards
Operative Systems	Windows® 7, Windows® 8.1, Windows® 10 IoT Enterprise 2016, Windows® Server 2008 R2, Windows® Server 2012 R2, Linux
IPMI	IPMI2.0, SPM, Watchdog; SNMP and e-mail alarms and notifications
Monitoring	Monitoring, control, and management functions (fan speed, temperature, voltage, redundant power failure, power consumption, disk health, raid health, and memory health)

Power Supply

Power Supply	100/240 Redundant VAC 18-36 Single or Redundant VDC 36-72 Single or Redundant VDC
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Mechanical

Dimensions	483 x 88 x 450 mm
Construction	Aluminum with surface passivation treatment
Colour	Silver / RAL9007
Mounting	2U 19" rackmount chassis Optional telescopic slides
Configuration	Rear I/O and Power Supply
Front Panel	Led Power ON and HDD/SSD functionality; Power ON / OFF and System Reset
Drive Bay	1 x slim 5.25"; 3 x 3.5" bay + 1 x internal bay x 3 ODD 2.5"

Environmental - (Design to meet)

Operating Temperatures	0°C to +50°C MIL-STD-810H, Method 501.7 & 502.7 -20°C to +60°C (depending on configuration)
Storage Temperature	-40°C to +70°C MIL-STD-810H, Method 501.7 & 502.7
Humidity	5% – 95% non-condensing MIL-STD-810H 507.6
Operating Vibrations	MIL-STD-167-1A, Type I
Not Operating Vibrations	1.17 Grms, 5-500 Hz MIL-STD-810H, Method 514.8
Operating Shocks	20g / 11ms – half sine MIL-STD-810G, Method 516.7
EMC	Directive 2014/35/UE-LVD Directive 2014/30/UE-EMC Directive 2011/65/UE - RoHS Regulation EC No 1907/2006 MIL-STD-461G (on request)

GAP servers and workstations are designed in accordance with the environmental specifications indicated. Some parameters depend on the configuration. Equipment may be subjected to dedicated test profiles.