

GAP-151R - G5 Series 1U RUGGED SERVER

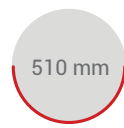


Intel® Xeon® Broadwell-EP

Rear I/O - Rear Power Supply



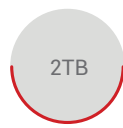
Platform



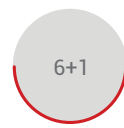
Depth



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-151R 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.

The rear I/O and rear power supply layout includes three removable SSDs, an internal SSD and an optional slim DVD.

GAP-151R rugged servers can host up to two 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

- 1U Rugged Server - 510mm 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 6x removable 2.5" SSD + 1x internal 2.5" SSD
- Optional DVD
- Up to 2 PCIe 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 Up to 2TB 3DS ECC LRDIMM, 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	2 x PCIe - Bracket Full Height
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 Single or Redundant VAC 18-36 Single or Redundant VDC 36-72 Single or Redundant VDC
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Mechanical

Dimensions	483 x 44,45 x 510 mm from angle 19° - 540 mm full depth
Construction	Aluminum with surface passivation treatment
Colour	Silver / RAL9007
Mounting	1U 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; 2 x USB 2.0
Drive Bay	1 x slim 5.25"; 2 x 3.5" bay + 1 x internal ODD 2.5"

Environmental - (Design to meet)

Operating Temperature	Standard: 0°C / +50°C Extended: -20°C / +60°C (depending on the configurations)
Operating Humidity	8% to 95% non-condensed (depending on the configurations)
Storage Temperature	-40°C / +70°C
Operating Vibration	MIL-STD-167-1A, Type I
Operating Shock	MIL-STD-810G Proc. I Method 516.7 - 15g / 11ms - half sine
Transport Shock	MIL-STD-810G Proc. II Method 516.7 - 30g / 9ms sawtooth
Certifications	Directive 2014/35/UE-LVD / Directive 2014/30/UE-EMC Directive 2011/65/UE - RoHS / Regulation (EC) No 1907/2006 - REACH

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.