GAP-251P - G6 Series
2U RUGGED WORKSTATION

Intel® Xeon® E3-1200 v5/v6, 6th/7th Gen. Intel® Core™ i3 series - Kaby Lake / Sky Lake
Front I/O - Front Power Supply





2U	510 mm	1	64GB	3+3	3
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-251P G6 rugged servers feature a single or dual socket Intel® Xeon® E3-1200 v5/v6, 6th/7th Gen. Intel® Core™ i3 series (Kaby Lake / Sky Lake) processors sup-porting up to 4 Cores (8 thread with Hyper-Threading), 8MB Smart Cache, up to 64GB DDR4 memory with our without ECC and up to 16 PCIe 3.0 lanes. The integrated IPMI services support monitoring, control, and manage-ment functions sending alarm notifications in case of critical events.

The layout with front I/O and power supply has all the connectors placed at the front of the chassis as required for"front only" installations.
GAP-251P rugged workstations include up to three re-movable SSDs, three internal SSDs and an optional slim DVD. One low profile PCIe cards and two PCIe cards can installed.
In case additional boards are needed they can be pro-vided with dedicated fixings f or a n o ptimal protection against shocks and vibrations also during transport.

GAP workstations are designed to meet MIL-STD-810F for temperature and shocks, MIL-STD-167-1A for vibra-tions. 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 ther-mal or mechanical environmental stress test.

FEATURES

- 2U Rugged Workstation - 510mm depth
- Intel® Xeon® E3-1200 v5/v6 series
- 6th/7th Gen. Intel® Core™ i3 series
- Front I/O connectors
- Front Power Input
- Redundant AC or DC Power Supply
- Up to 3 x removable 2.5" SSD + 3 x internal 2.5" SSD
- Optional DVD
- Up to 3 PCIe boards
- Optional Conformal Coating
- MIL-STD-810G
- Optional MIL-STD-461

Technical Specifications

System

Processor	Intel® Xeon® E3-1200 v5/v6, 6th/7th Gen. Intel® Core™ i3 - single socket H4 (LGA 1151)
Memory	Up to 64GB ECC UDIMM, DDR4-2400MHz
Chipset	Intel® C236
Network	2 x RJ45 Gigabit Ethernet 1 x RJ45 dedicated IPMI
Storage	2.5" SATA Disk - RAID 0, 1, 5, 10
SATA	6 SATA3 ports (6Gbps); RAID 0, 1, 5, 10
TPM	1 TPM Header
Motherboard I/O	Available at the front: 1 x VGA, 2 x USB 2.0, 2 x USB 3.0, 1 x COM, 2 x LAN, 1 x IPMI
Expansion slots	2x PCIe - Bracket Full Height 1x PCIe - Low Profile
Operative Systems	Windows® 7, Windows® 8.1, Windows® 10 IoT Enterprise 2016, Windows® Server 2008 R2, Windows® Server 2012 R2, Hyper-V 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

Mechanical

Dimensions	483 x 88 x 510 mm
Construction	Aluminum with surface passivation treatment
Colour	Silver / RAL9007
Mounting	2U 19" rackmount chassis Optional telescopic slides
Configuration	Front 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"; 1 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.