

GAP-151P - G7 Series 1U RUGGED WORKSTATION



Intel® Xeon® E-2200/2100, Intel® 8th /9th Gen. Core™ i3 - Coffee Lake
Front I/O - Front Power Supply



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

GAP-151P G7 series workstations feature single socket Intel® Xeon E-2200/2100 or Intel® 8th/9th Gen. Core™ i3 (Coffee Lake) processors supporting up to 8 Cores (16 thread with Hyper-Threading), 16MB Smart Cache, up to 128GB DDR4 memory with or without ECC and up to 16 PCIe 3.0 lanes. The integrated IPMI services support monitoring, control, and management functions and provides for alarm notifications in case of critical events.

GAP-151P is designed for 19" rackmounting and has a 1U chassis with 510mm depth.

The front I/O and power supply layout includes all the connectors on the front of the chassis as required for front only installations.

GAP-151P rugged workstation features an internal 2,5" SSD and can host up to two PCIe cards.

The additional boards are equipped with dedicated fixing systems to ensure optimal operation even in the presence of shock and vibration or during transport.

GAP workstations are qualified according to MIL-STD-810G for temperature, shock and vibration and can optionally conform to MIL-STD-461 for EMI /EMC. Upon request, the integrated devices, complete with I / O cards, can be subjected to specific profiles of thermal or mechanical stress. Versions with MIL grade connectors on I/O ports and power input are available.

All units are delivered with their inventory list to ensure configuration control and reproducibility over time.

FEATURES

- 1U Rugged Workstation - 510mm depth
- Single Intel® Xeon® E-2200/2100 series
- Single Intel® 8th/9th Gen. Core™ i3 series
- Front I/O connectors
- Front Power Input
- Redundant AC or DC Power Supply
- 1 x internal 2.5" SSD
- Up to 2 PCIe boards
- Optional Conformal Coating
- MIL-STD-810G
- Optional MIL-STD-461

Technical Specifications

System

Processor	8th/9th Generation Intel® Core™ i3/Pentium®/Celeron®, Intel® Xeon® E-2200/2100 Processor (up to 95W) - Single Socket LGA-1151 (Socket H4)
Memory	Up to 128GB ECC UDIMM, DDR4-2600MHz
Chipset	Intel® C246
Network	2 x RJ45 Gigabit Ethernet 1 x RJ45 dedicated to IPMI
Storage	2.5" SATA Disk - RAID 0, 1, 5, 10
SATA	6 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10
TPM	1 TPM Header
Motherboard I/O	Available on the front: 1 x VGA, 2 x USB 2.0, 2 x USB 3.1, 1 x COM, 2 x LAN, 1 x IPMI
Expansion slots	2x PCIe - Bracket Full Height
Operative Systems	Windows® Server 2012 R2; Windows® Server 2016; Windows® Server 2019; Ubuntu 18.04 LTS; CentOS 7.5; Windows® 10 64bit
IPMI	IPMI2.0, SPM, Watchdog; SNMP and e-mail alarms notification
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 44,45 x 510 mm
Construction	Aluminum with surface passivation treatment
Colour	Silver
Mounting	1U 19" rackmount chassis Telescopic slides optional
Configuration	Front I/O and Power Supply
Front Panel	Led: Led Power ON and HDD/SSD functionality; Switch: Power ON / OFF and System Reset
Drive Bay	1 x internal SSD 2.5"

Environmental - (Design to meet)

Operative Temperature	Standard: 0°C / +50°C Extended: -20°C / +60°C (depending on the configurations)
Operative Humidity	8% to 95% non-condensed (depending on the configurations)
Storage Temperature	-40°C / +70°C
Vibrations	MIL-STD-810G, Method 514.7, Cat 4 - Proc. I - 2.24 Grms, 5-500 Hz 60 min/axis for 3 axes
Operative 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.