

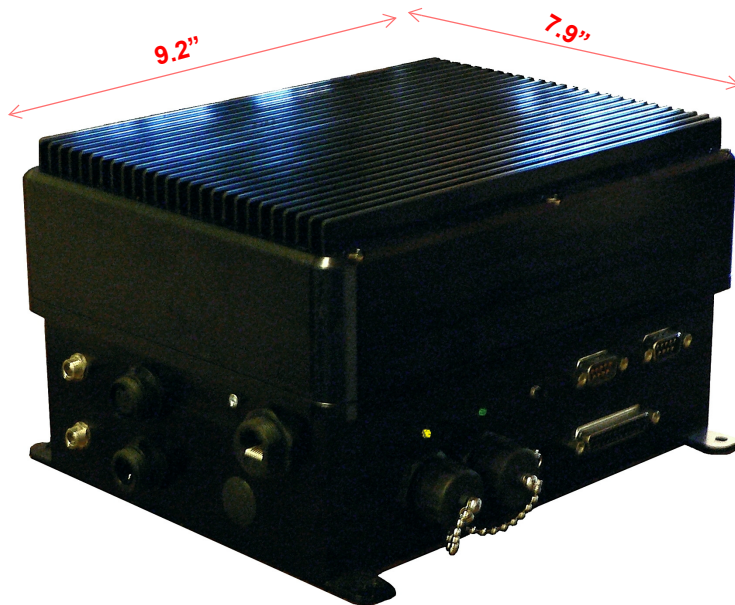
Q-series Sealed Mobile Servers

Based on Advanced APlus Mobile Technology (US Patent No 7,773,375)

- Use the latest Intel® Quad Core and i-Series Processors
- Open Architecture to run all PC operating systems and software
- 12-29VDC Power Input (10-36VDC operational)
- Built-In Patented Transient Protection and Power Management
- Compact, Sealed, Aluminum Case with Patented Cooling Technology
- I/O connectors configurable per specification
- Scalable form factor depending on configuration (9.2" x 7.9" footprint)
- Mount on any flat surface in any orientation
- Extended Temperature Range available
- 100% solid state; no moving parts

DESIGNED FOR
MIL-STD-810G
APPLICATIONS

Temperature
Altitude
Shock
Vibration



Q-series Sealed Server

For more information visit www.APlusMobile.com

All Trade Marks are owned by their respective owners, whether marked TM or otherwise.

- **Configurable COTS for Commercialization:** Standard hardware design can be custom configured to meet complex software requirements.
- **Equipment Powered:** 10-36VDC with Patented internal transient protection and power management.
- **Completely Sealed Machined Aluminum Chassis:** Eliminates contaminant ingestion of dust and water.
- **Standard x86 Architecture:** Tested to run all standard PC Operating Systems (Windows 7, Linux, Unix, etc.), Programs and Peripherals.
- **Extended Capability:** Seamless interface with sensor networks, navigation control systems, LIDAR, LADAR and real-time surveillance systems. Intel® based processors and chipsets. Incorporates internal WiFi, Cell Modem, CAN bus and more per your specification.
- **Designed and Manufactured in the USA**



Q-Series

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Features and Specifications:

- **Capability:** Open Architecture. Runs all currently available PC operating systems (Windows 7, Linux, Unix, etc.), applications and peripherals. Integrate multiple applications in one box. Ready for commercialization of your bench software today.
- **Power Efficiency:** Powered by the raw 12-29VDC bus (10-36VDC operational, 0-36VDC operational with uninterruptible power supply (UPS)). External converters and adaptors not required.
- **Reliability:** Sealed to prevent contaminant ingestion of dust or water, the leading cause of field deployed computer failures; Patented Internal Power Management System provides automatic control of system's power states; Patented Thermal Management Solution provides passive cooling of sealed server; based on Intel chipsets and related components. (External airflow may be required.)
- **Flexible Form Factor:** Remotely mounted from peripherals for maximum flexibility.
- **Footprint Dimensions:** 9.2" L x 7.9" W (23.4cm x 20.1cm) (Height variable on configuration).
- **Weight:** Approx. 14-17 lbs. depending on configuration and processor thermal requirements.
- **Temperature:** 0°C to 60°C standard, extended temperature range available.

Standard Configurations	Q40	Q50	Q70
CPU	Intel® Core™ i5-560M Processor	Intel® Core™ i5-2520M Processor	Intel® Core™ i7-2720QM Processor
Clock Speed	2.66 GHz, Max Turbo Frequency 3.2 GHz	2.5 GHz, Max Turbo Frequency 3.2 GHz	2.2 GHz, Max Turbo Frequency 3.3 GHz
Chipset	Intel® QM57	Intel® QM67	Intel® QM67
Watchdog Timer	System reset with programmable watch-dog timer for 1~255min/s	System reset with programmable watch-dog timer for 1~255min/s	System reset with programmable watch-dog timer for 1~255min/s
Realtime Clock	Chipset integrated RTC with onboard lithium battery	Chipset integrated RTC with onboard lithium battery	Chipset integrated RTC with onboard lithium battery
Memory	4GB DDRIII SO-DIMM 1066 MHz	4GB DDRIII SO-DIMM 1333 MHz (up to 8GB 1600 MHz)	4GB DDRIII SO-DIMM 1600 MHz (up to 8GB 1600 MHz)
SSD	40GB Intel® SSD	40GB Intel® SSD	40GB Intel® SSD
Graphics	Intel® integrated extreme GMA 4500MHD	Integrated Intel Core™ HD graphics Technology	Integrated Intel Core™ HD graphics Technology
Ethernet Interface	3 x Intel® 82574L Gigabit LAN	1 x Intel® 82579LM Gigabit LAN; 2 x Intel® 82574L Gigabit LAN	1 x Intel® 82579LM Gigabit LAN; 2 x Intel® 82574L Gigabit LAN
OBDII-CAN	Philips SJA1000, PCA82C251 CAN Controller (ISO 11898-2)	Philips SJA1000, PCA82C251 CAN Controller (ISO 11898-2)	Philips SJA1000, PCA82C251 CAN Controller (ISO 11898-2)
Expansion	n/a	1 x miniPCIe	1 x miniPCIe
Standard I/O (Configurable to specification)	1 x VGA 3 x LAN 4 x USB 2.0 1 x RS-232 1 CAN (9-pin)	1 x VGA 3 x LAN 4 x USB 2.0 1 x RS-232 1 CAN (9-pin)	1 x VGA 3 x LAN 4 x USB 2.0 1 x RS-232 1 CAN (9-pin)
Operating T	0-60°C	0-60°C	0-60°C
Storage T	-20~85°C	-20~85°C	-20~85°C
Dimensions	9.2" L x 7.9" W x 5.5" H (shown)	9.2" L x 7.9" W x TBD H	9.2" L x 7.9" W x TBD H
Weight	~14lbs	~14-17lbs	~17lbs



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