

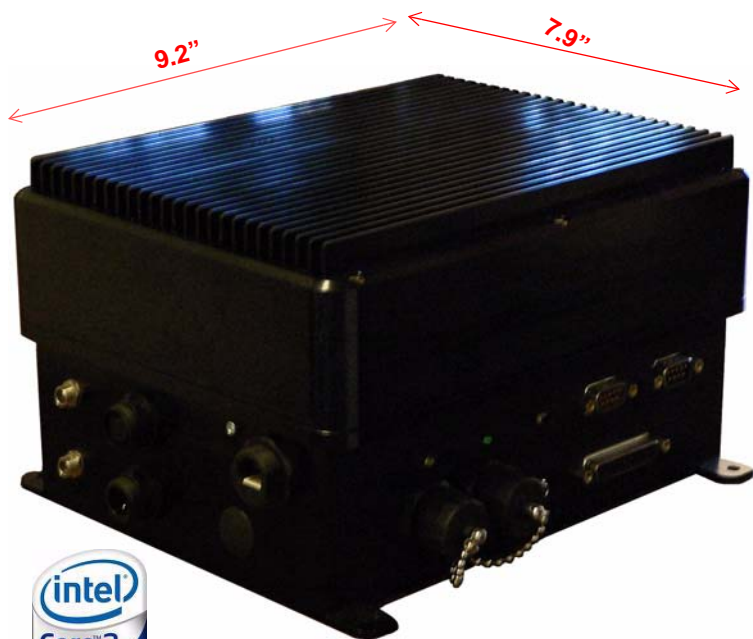
Q40 Quad Core Sealed Server

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

- Intel® Core 2 Quad Processor for demanding mobile processor workloads
- Open Architecture runs 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

DESIGNED FOR
MIL-STD-810G
APPLICATIONS

Temperature
Altitude
Shock
Vibration



Q40-MC Sealed Server

For more information visit www.APlusMobile.com

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APlus Mobile's Q40-MC Rugged Server Solution

- **Configurable COTS for Commercialization:** Standard hardware design can be custom configured to meet complex software requirements.
- **Equipment Powered:** 9-36VDC 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, FLIR, 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**



Q40-MC

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503.775.2909

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Macungie, PA 18062
267.374.3234

CAGE Code: 4P1Q1

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 (9-36VDC 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.
- **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 lbs. depending on configuration and processor thermal requirements.
- **Temperature:** 0°C to 60°C standard, extended temperature range available.

Available I/O:
 5 x RS232
 1 x RS232/422/485
 8 x USB 2.0 ports
 2 x 82573L GB Ethernet
 1 x 8-bit GPIO (5V)
 2 x Audio (IN and OUT)
 1 x VGA or DVI
 1 x Mini-PCI slot
 1 x PCI slot

Q40-MC Specification & Features	Q40-MC Accessories and Options																																		
<p>Processor Intel Core 2 Quad Q9550 Desktop @ 1333 MHz FSB (LGA775)** Other processor types available.</p> <p>Chipset Intel Q35 & ICH9DO</p> <p>Audio Intel integrated ICH9DO with Realtek ALC888 HD Audio</p> <p>Video Intel extreme GMA 3100 technology</p> <p>LAN Interface 2 x Intel 82573L Gigabit LAN</p> <p>Memory DDR2 up to 4GB</p> <p>Features Watchdog Timer available Serial ATAII support for RAID 0,1,5,10 (up to 4 x SSD available)</p> <p>* All configurations must be specified at time of order. Motherboard not user accessible. Other configurations available, please consult factory. ** Quad Core may require external case airflow during operation.</p>	<p>1 x Mini-PCI socket available</p> <table border="0"> <tr> <td>APM-MP-878D</td> <td>Mini-PCI video capture card, Conexant BT878A decoder</td> </tr> <tr> <td>APM-MP-954</td> <td>Mini PCI support 4 x Serial Ports Module (3 x RS232 and 1 x RS232/422/485) *</td> </tr> <tr> <td>APM-MP-323</td> <td>Mini-PCI IEEE 1394A Module (3 ports)</td> </tr> <tr> <td>APM-MP-541D2</td> <td>Mini-PCI Dual Gigabit Ethernet Module</td> </tr> <tr> <td>APM-MP-2501</td> <td>Mini-PCI 802.11b/g Wireless card</td> </tr> <tr> <td>APM-MP-954GPS</td> <td>Mini-PCI GPS Module</td> </tr> <tr> <td>APM-MP-878D2</td> <td>2 - 8 channels input Capture Card at 60 fps</td> </tr> <tr> <td>APM-MP-6100</td> <td>4-ch video & audio input H.264 Hardware compression card</td> </tr> </table> <p>OBDII/CAN Options</p> <table border="0"> <tr> <td>Basic</td> <td>Basic CAN module</td> </tr> <tr> <td>Enhanced</td> <td>Enhanced CAN module (SJA1000, 82C251)</td> </tr> </table> <p>Modem Options</p> <table border="0"> <tr> <td>GPRS Modem</td> <td>GSM/GPRS Modem</td> </tr> <tr> <td>CDMA Modem</td> <td>Dual-band CDMA Modem</td> </tr> <tr> <td>Edge Modem</td> <td>Edge Modem</td> </tr> </table> <p>Hard Drive Options</p> <table border="0"> <tr> <td>Standard</td> <td>1 x 40GB SSD SATA, Solid State 2.5" Hard drive</td> </tr> <tr> <td>Upgrade</td> <td>2 x 40GB SSD Hard drive (80GB total)</td> </tr> </table> <p>Other SSD sizes and combinations available.</p> <table border="0"> <tr> <td>UPS</td> <td>Internal DC Uninterruptible Power Supply</td> </tr> <tr> <td>PS20-HS</td> <td>Internal Heater Strips & Thermostat Control Module</td> </tr> </table>	APM-MP-878D	Mini-PCI video capture card, Conexant BT878A decoder	APM-MP-954	Mini PCI support 4 x Serial Ports Module (3 x RS232 and 1 x RS232/422/485) *	APM-MP-323	Mini-PCI IEEE 1394A Module (3 ports)	APM-MP-541D2	Mini-PCI Dual Gigabit Ethernet Module	APM-MP-2501	Mini-PCI 802.11b/g Wireless card	APM-MP-954GPS	Mini-PCI GPS Module	APM-MP-878D2	2 - 8 channels input Capture Card at 60 fps	APM-MP-6100	4-ch video & audio input H.264 Hardware compression card	Basic	Basic CAN module	Enhanced	Enhanced CAN module (SJA1000, 82C251)	GPRS Modem	GSM/GPRS Modem	CDMA Modem	Dual-band CDMA Modem	Edge Modem	Edge Modem	Standard	1 x 40GB SSD SATA, Solid State 2.5" Hard drive	Upgrade	2 x 40GB SSD Hard drive (80GB total)	UPS	Internal DC Uninterruptible Power Supply	PS20-HS	Internal Heater Strips & Thermostat Control Module
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