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PQ7-M102XL

Portwell's ultra compact PQ7-M102XL is a Qseven module board (70mm x 70mm), based on the Intel Atom processor Z510PT/Z520PT and the Intel SCH US15WPT. Both the PQ7-M102XL and its companion PQ7-C100XL 3.5" ESB developer carrier board support an industrial temperature range of -40ºC to 85ºC. The PQ7-M102XL module board features 512MB memory; dual independent display by LVDS/SDVO; one GbE; eight USB ports; and expansion of two SATA, one SDVO, one PCI-E x1, LPC and high definition audio interface. Portwell's PQ7-M102XL module board with companion PQ7-C100XL developer carrier board is the ideal solution for low power, wide temperature and fanless devices in applications such as medical, outdoor embedded systems, industrial control, gaming machines, and COTS military.



FEATURES

- Intel Atom processor Z510PT/Z520PT and the Intel System Controller Hub US15WPT, featuring industrial temperature range
- Supports two SATA ports from the Qseven golden finger
- Onboard 512MB DDR2 memory
- Dual independent display by SDVO and LVDS
- Expansion: One SDVO, one PCI-E x1, two SATA, LPC and high definition audio interface
- Ultra compact footprint at 70mm x 70mm (2.75" x 2.75")

For more information, contact: info@portwell.com **RSC# 42419 @ www.mil-embedded.com/rsc**

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VPX3-127 Freescale MPC8640D Single Board Computer

The VPX3-127 combines the performance and the advanced I/O capabilities of the Freescale Power Architecture MPC8640D processor with an extensive I/O complement to provide a highly capable processing platform for a wide range of embedded military/aerospace applications. Designed for space constrained applications, the VPX3-127 represents the latest step in the evolution of rugged high-performance, highly integrated small form factor SBCs.

The VPX3-127's integral high-speed backplane and PMC/XMC connectivity allows for multi-GB/sec data flows from board-to-board through the backplane interface and from the backplane to PMC/XMC site supporting the acquisition, processing, and distribution of sensor data such as video, radar, and sonar data. A rich I/O complement includes 2 Gigabit Ethernet ports, 4 serial channels, up to 8 bits of discrete digital I/O, USB 2.0 ports, and a PMC/XMC site with 64 bits of I/O to the backplane.



FEATURES

- Powerful general-purpose Single Board Computer with Freescale MPC8640D processor
- Dual Freescale Power Architecture cores up to 1.0GHz
- Up to 2 GB DDR2 SDRAM controlled by dual 64-bit controllers
- I/O including Ethernet, serial, USB 2.0, PCI Express, TTL, and differential discretes
- 3U VPX format with two 4-lane PCI Express fabric ports or one 4-lane PCI Express port and one 4-lane Serial RIO port
- VxWorks 6.x BSP, Linux GPP LE, Green Hills INTEGRITY, and LynxOS
- Continuum Software Architecture (CSA) firmware
- Designed for military harsh-environment applications, both air- and conduction-cooled

For more information, contact: sales@cwcembedded.com **RSC# 41195 @ www.mil-embedded.com/rsc**

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