Embedded platform supports industrial temperature range of -40 to +85ºC

MSC Embedded introduced a new embedded platform designed for the fast development of embedded systems with Qseven modules. The powerful MSC Q7-MB-EP4 embedded platform is designed to support the latest version (1.20) of the Qseven specification, and offers system integrators a ready to use carrier board with added functionality and I/O flexibility for easy customization.

The MSC Q7-MB-EP4 embedded platform provides a broad range of the interfaces commonly used in embedded applications, such as a dual Gigabit LAN, five USB 2.0 ports (four external), an RS-232 (pin header), an AC97 audio port and Serial Advanced Technology Attachment (SATA) interfaces. CAN signals are also available via a special pin header. An RS-232 Debug port for a console output simplifies Linux software development, which is especially important for MSC's Qseven modules using ARM technology. For the integration of standard displays, the embedded platform provides LVDS via a JILI30 connector and a DVI connector. Furthermore, the platform integrates a controller for the connection of a resistive touch screen and provides the power supply for a backlight.

For added functionality of the 148 x 102mm compact motherboard, a mini PCI Express slot has been integrated, which supports a wireless LAN card. The mSATA slot provides an easy way to add a SATA-based flash memory card. Additionally, the MSC Q7-MB-EP4 embedded platform can be individually configured via the integrated MMC/SD card slot.

The MSC Q7-MB-EP4 embedded platform supports the industrial temperature range of -40 to +85°C. The compact Qseven module is mounted via a proven MXM connection on the solder side of the MSC Q7-MB-EP4 baseboard, making it easy to thermally connect the Qseven heat spreader to a metal enclosure and provide fan-less heat dissipation.

"The MSC Q7-MB-EP4 embedded platform offers designers a solution to seamlessly integrate the customer-specific functions and applications that are commonly requested in today's system designs," said Mike Miller, CEO of MSC Embedded. "It not only features the latest technological advances, but provides the added design flexibility that our customers require."

Pricing and availability

The MSC Q7-MB-EP4 embedded platform is available immediately in small to medium-sized production quantities. Pricing for OEM quantities starts at $160.

For more information, visit www.mscembedded.com [1]

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