

VersaLogic Corporation announces a new line of production-ready, ARM based embedded computers at Embedded World 2018

The Tetra is a power-efficient, quad-core Single Board Computer (SBC) based on a quad-core i.MX6 Cortex®-A9 32-bit processor.

The Tetra from VersaLogic typically consumes about 4W of power when operating (not idle). It is ready for off-the-shelf deployment into demanding industrial applications requiring rugged, long-life, power-efficient, industrial temperature rated (-40° to +85°C) solutions.

VL-EPC-2700 'Tetra' Datasheet

Unlike many ARM-based "modules," VersaLogic's new line of ARM-based EPC (Embedded Processing Card) products are complete board-level computers. They do not require carrier cards, companion boards, connector break-out boards, or other add-ons to function.

For ease of mounting, and future upgrades, VersaLogic's ARM products are designed around the size and mounting points of COM Express products. Unlike proprietary-format ARM products, VersaLogic ARM boards provide a standard mounting pattern allowing for simplified upgrading in the future.

The Tetra matches the COM Express Basic footprint (125 x 95 mm) and offers a variety of I/O options for rugged, industrial applications. All three quad-core Tetra models feature a wide (8 to 17-volt) power input, making it ideal for 12-volt automotive applications.

Many applications that require lower power or lower heat dissipation still need very high levels of reliability. VersaLogic's 10+ year formal life-extension program ensures long production cycles free from expensive changes and upgrades that come from short, disposable lifecycles.

On-board I/O

A variety of on-board I/O includes a Gigabit Ethernet port with network boot capability, HDMI and LVDS video outputs, and two USB 2.0 Ports. Serial I/O (RS-232) and a SATA II interface or mSATA, support high-capacity rotating or solid-state drives.

CAN Bus, I2C and SPI are also included along with a 6-axis e-compass, and MIPI camera input. The on-board Mini PCIe socket provides flexible expansion using plug-in Wi-Fi modems, GPS receivers,

Ethernet, Firewire, and other mini cards.

Industrial Toughness

Designed and tested for Industrial temperature (-40° to +85°C) operation, VersaLogic's rugged Tetra meets MIL-STD 202G specifications to withstand high impact and vibration. It is engineered and validated to excel in unforgiving environments. Each component is carefully selected to ensure reliable operation in the field.

With decades of embedded design experience, VersaLogic understands how to design in quality and reliability. U.S.-based technical support includes comprehensive assistance during project development.

Availability

The Tetra, part number VL-EPC-2700, is available from stock. Contact info@sarsen.net for more information.