

# Aitech U-C9140

## NXP™ QorIQ™ T1/T2 SOSA™ Aligned SBC



The U-C9140 is a unique low-power solution for SOSA aligned systems requiring a PowerPC processor to run real-time embedded applications or re-use existing application code. The SBC, based on NXP QorIQ T1/T2 Series SoC multi-core, multi-threaded processors, is aligned with the SOSA Technical Standard, Edition 1.0 and is FACE™ compliant. The SWaP-C-optimized, COTS-based U-C9140 offers a wide variety of on-board I/O and large memory resources, like on-board mass storage, and includes the latest QorIQ Secure Boot and Trust Architecture 2.0 for improved cybersecurity protection.

**The U-C9140 expands Aitech's comprehensive SOSA aligned product line, including: U-C5300, U-C8770 and U-P2330**



**See Our Entire SOSA Aligned Portfolio**

### TECHNOLOGY HIGHLIGHTS & CUSTOMER BENEFITS

- SBC aligned with the SOSA Technical Standard 1.0, allows faster fielding and significantly lower integration costs
- SWaP-C-optimized PowerPC processor for running real-time applications and reusing PowerPC code
- Low power consumption, with excellent performance per Watt for SOSA sensors and systems
- Design flexibility built in with industry standard XMC slot and multiple I/O options
- First Aitech SBC to support FACE™ conformant Wind River® VxWorks 653 OS and a compliant BSP
- Improved security assurance through latest QorIQ Secure Boot and Trust Architecture 2.0
- Lower cost of ownership through COTS Lifecycle+™ obsolescence management
- Reduced time to market using our in-house hardware and software design services

### PRODUCT APPLICATIONS & TARGET MARKETS

- Mission Computers for SOSA Aligned Mil/Aero Platforms
- SOSA Sensors
- Sensor Signal Processing
- Signal Intelligence
- Electronic Warfare



### KEY PRODUCT INSIGHTS

Rugged single slot SBC	Versatile board I/O: PCIe, GbE, SATA, Serial, USB 2.0, Discrete I/O
Aligned with SOSA Technical Standard, Edition 1.0, FACE conformant VxWorks 653 OS and a compliant BSP	XMC slot
NXP QorIQ multicore SoC, up to 4 x e6500 dual-threaded cores	-40°C to +85°C operating temperature range
PCIe x8 fabric switch	Shock and vibration resistant
Up to 8 GB DDR3L with ECC, up to 64 GB eMMC flash, 256 KB NVRAM (MRAM)	VxWorks®, Linux® support

As a pioneer in the field of computing technologies, Aitech provides reliable, rugged embedded systems for the harshest, most unforgiving operating environments across the globe to secure a better tomorrow.

**Contact Aitech Today!**

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