



BOHEMIA, NY January 2024 -- North Atlantic Industries, Inc. (NAI), a leader in embedded computing solutions and power supplies, announces the release of the 68PPC3, a 3U OpenVPX SOSA™-aligned Single Board Computer (SBC) designed to meet the rigorous demands of defense, aerospace, and industrial applications. The 68PPC3 is equipped with an NXP® QorIQ® T2080 quad-core processor and 8 GB of DDR3 w/ ECC SDRAM, delivering exceptional performance and versatility for SWaP-optimized systems.

The 68PPC3 is a cutting-edge SBC, engineered with the flexibility to support up to two smart function modules, making it an ideal choice for applications requiring adaptability and scalability. With a strong focus on providing off-the-shelf solutions, the 68PPC3 accelerates system deployment in SWaP-constrained environments.

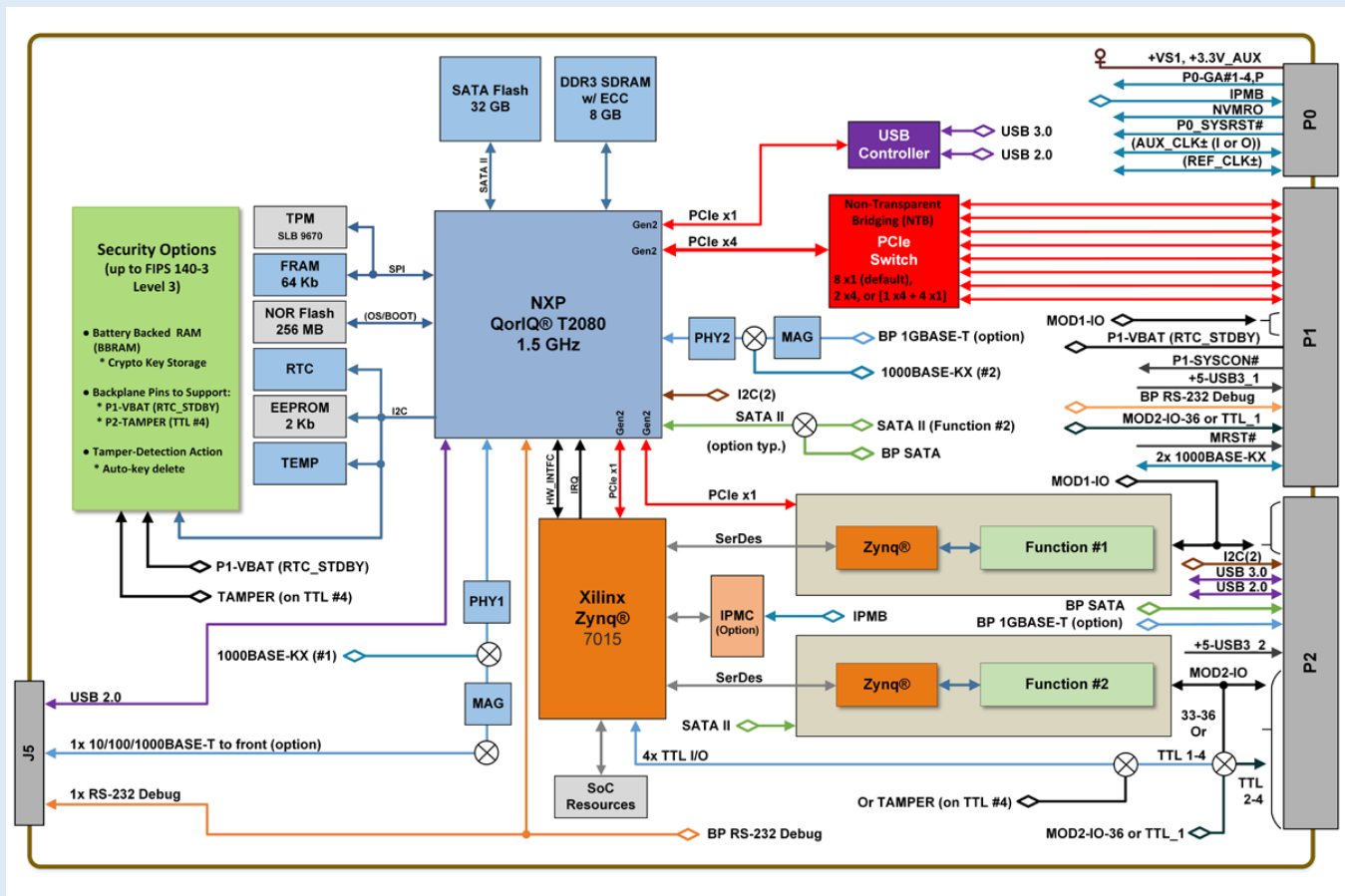
The 68PPC3 boasts high-performance processing ensuring rapid data processing and efficient task execution. Its rugged durability makes it a reliable solution for military, aerospace, and industrial applications, guaranteeing continuous operation in challenging environments. Operating System support includes Wind River® VxWorks® and DDC-I Deos™, enabling seamless integration and application customization. SSKs are compiled with board-specific library I/O APIs including source code, html help files and documentation simplifying system integration and allowing for fine-tuned software configurations.

"The 68PPC3 is a testament to our dedication to innovation and excellence," says Lino Massafra, VP of Sales and Marketing at NAI. "By harnessing the enduring production availability of NXP's T2080 processor, extended to 2035, the 68PPC3 establishes itself as the pinnacle of performance and resilience. It is the linchpin for sustaining and advancing a vast array of established and future program applications, ensuring our customers maintain their leading edge in the realm of rugged computing."

The release of the 68PPC3 underscores NAI's unwavering commitment to advancing embedded computing solutions for the most challenging environments. As we push the boundaries of technology, we aim to provide innovative solutions for our customers to excel in defense, aerospace, and industrial sectors. The 68PPC3 not only represents the pinnacle of our dedication to innovation but also the future of rugged computing.

Features

- COSA® Architecture
- VPX / OpenVPX (ANSI/VITA 65) SOSA™-Aligned
- Slot profile: SLT3-PAY-1F1F2U1TU1T1U1T-14.2.16
- Module profile: MOD3-PAY-1F1F2U1TU1T1U1T-16.2.15-1
- Up to 2 independent smart I/O function module supported (configured option)
- NXP®, QorIQ® T2080 quad-core processor
- 8 GB DDR3 SDRAM (with ECC)
- 32 GB SATA II NAND Flash
- Operating Systems Supported: Wind River® VxWorks® 7.x and HVP, Xilinx® PetaLinux and DDC-I Deos™
- Background Built-In-Test (BIT) continually checks and reports on the health of each channel
- IPMC Support VITA 46.11 Tier-2, basic, compatible (configured option)
- Operating temperature: 0° C to +70° C commercial, -40° C to +85° C rugged



Block Diagram

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