

From: "Portwell" <pw.webmaster@portwell.com.tw>
Sent: Tuesday, 20 June 2023 02:57
To: "Info | HighTech Nordic" <info@hightechnordic.com>
Subject: Portwell Rugged, Fanless and Compact Embedded System with Intel Atom® x7000E Series Processors for Industrial IoT Gateways and Intelligent Edge Appliances

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PRESS RELEASE

Portwell Announces WEBS-21J0 Embedded System Powered by Intel Atom® x7000E Series Processors, Intel® Processor N Series, and Intel® Core™ i3 N-Series Processors

WEBS-21J0 Is Rugged, Fan-less, Compact, and Ideal for Industrial IoT Gateways, Intelligent Edge Appliances, Medical Equipment and Industrial Automation Applications



TAIPEI, TAIWAN - June 20, 2023 - [Portwell, Inc.](#), a global leader in Industrial Personal Computers (IPC) and embedded computing solutions, announces the launch of the WEBS-21J0,

a compact, fan-less and rugged embedded system featuring Intel Atom® x7000E Series Processors, Intel® Processor N Series, and Intel® Core™ i3 N-Series Processors. Designed to meet the diverse needs of various industries, the WEBS-21J0 offers optimized features and performance. Portwell, recognized as a Titanium-level partner in the Intel® Partner Alliance program, has developed this system to deliver outstanding performance and reliability.

The WEBS-21J0 is specifically designed to support both the low-power Intel Atom® x7000E series processors and the high-performance Intel® Core™ i3 N series processors. Empowered by the Intel processor platform's remarkably low thermal design power (TDP) of only 15W, this power-efficient system offers a winning combination of ruggedness, compactness, and superior performance. Its versatile design makes it an ideal solution for a wide range of applications, including industrial factory automation, automated testing equipment, semiconductor devices, digital signage, healthcare equipment, and more.

At the heart of the WEBS-21J0 is Portwell's NANO-6064 Nano-ITX embedded motherboard, featuring the latest Intel Atom® x7000E Series processors, Intel® Processor N Series, and Intel® Core™ i3 N series processors. This cutting-edge processor lineup combines low power consumption, high processing capability, and enhanced performance compared to previous generations. The WEBS-21J0 system supports a non-ECC DDR4 3200 MT/s SO-DIMM slot with a maximum capacity of 16GB and includes the In-Band Error Correction Code (IB ECC) feature for improved reliability and memory performance. With Intel UHD Graphics Gen 12, equipped with up to 32 execution units (EUs), the WEBS-21J0 offers the ability to drive dual 4K independent displays through DisplayPort and HDMI interfaces. Plus, the system also includes an audio (Line out) and a DC 12V input on the rear I/O. Connectivity options are plentiful, including two USB 3.2 Gen 2 ports for efficient data transfer, one configurable RS-232/422/485 port through BIOS settings, an M.2 E-key 2230 slot for wireless modules, and an M.2 B-key 3052+2280 slot (shared with M.2 2280 SATAIII socket) for wireless modules and storage devices. Additionally, there's a Nano SIM socket integrated directly on the board. Moreover, the WEBS-21J0 system boasts dual 2.5GbE LAN connectivity (I225-LM) through two RJ-45 ports, supporting Intel Time-Sensitive Networking (TSN) and Intel Time Coordinated Computing (TCC) technologies. These features enhance real-time computing and processing capabilities, making the WEBS-21J0 an excellent choice for time-critical applications. In addition, the onboard TPM 2.0 ensures enhanced system-level security, providing enhanced data protection for sensitive information and ensuring the integrity of the system.

All in all, the compact fan-less WEBS-21J0 embedded system (150mm x 150mm x 66mm), seamlessly integrated with Portwell's NANO-6064 Nano-ITX embedded board, enables performance to the next level. This combination meets the stringent requirements of designs that demand superior performance with low power consumption, especially for the ever-expanding IoT applications in space-constrained environments. The Portwell WEBS-21J0 excels in durability and reliability, supporting a temperature range of 0°C to 50°C. Its fan-less design ensures silent operation, minimizing maintenance requirements and costs. The WEBS-21J0 also offers flexible installation options with support for both wall and DIN-rail mounting, enabling its

deployment across diverse field applications.

At Portwell, we strive for excellence, and the Portwell WEBS-21J0 embedded system is merely one example of the multitude of superior products designed and manufactured at our facilities. We challenge ourselves continuously to understand each customer's unique business needs, and are committed to meeting their requirements and demands. Not only that, but our customers also benefit from the peace of mind they get from the 10+ years long product life span support inherent with this Portwell product.

PRODUCT



Embedded Rugged Fan-less System with Intel Atom[®] X7000E Series SoC based NANO-ITX Board

Sample Ready for You to Test! ► [WEBS-21J0](#)

OTHER NEWS

[PCOM-B658VGL: A COM Express Type 6 Module Featuring 13th Gen Intel[®] Core™ Processors for Medical Devices, Industrial Control and Edge Computing Solutions](#)

Over the last few years, the widespread adoption of digitization across industries has been propelling innovative embedded computing designs to accelerate the digital transformation of applications such as medical devices, industrial control, and edge/network communications. To cope with the growing ...

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[NANO-6064 Empowers IoT Edge Use Cases with AI and Real-Time Computing; Ideal for Healthcare, Retail, Digital Signage and Automation Applications](#)

Portwell, Inc., a world-leading innovator for Industrial PC (IPC) and embedded computing solutions, and a Titanium Partner of Intel[®] Partner Alliance, announces the NANO-6064 Nano-ITX form factor (120mm x 120mm) embedded system board

designed with the low-power Intel Atom® processors x7000E series, Intel® ...

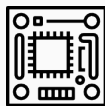
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PECA-6232T with Intel x6212RE/x6414RE SoC and Bypass Ethernet Ports as an Industrial Security Gateway for OT Environment

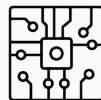
TAIPEI, TAIWAN – May 23, 2023 – Portwell, Inc., a leading innovator in Industrial PC (IPC) and embedded computing solutions, launched a new Industrial Gateway – PECA-6232T. This gateway provides a reliable and secure network infrastructure tailored to modern industries facing cybersecurity threats in today’s rapidly changing digital landscape. ...

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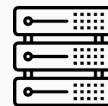
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Module Computing Service



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