


Ämne: COM-HPC Client Type Size B Module with 13th Gen Intel® Core™ Processor for Medical Equipment and Industrial Control Solutions

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Från: Portwell

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PRESS RELEASE

PCOM-B883VG2: A COM-HPC Client Type Size B Module with 13th Gen Intel® Core™ Processor for Medical Equipment and Industrial Control Solutions



The advertisement features a dark blue background. On the left, two medical professionals in white coats and masks are looking at a futuristic, glowing blue interface. In the center, a green COM-HPC module is shown with various components and a glowing blue square on its surface. To the right, three Intel Core processor logos (i5, i7, i3) are displayed. The Portwell logo is in the top left corner.

Portwell

PCOM-B883VG2

COM-HPC with 13th Generation Intel® Core™ Processor for Medical Equipment, Industrial Automation, Edge Computing Applications

In recent years, as digital transformation has become increasingly prevalent for industry applications in cloud and edge/network communication, the demand is growing for embedded computers to provide high performance computing and processing power while at the same time, to fulfill the strict reliability requirements for industrial embedded computing solutions, limitless scalability is now determinedly expected to be a must-have. The computer-on-module (COM) specification emerged to complement the highly scalable modular embedded computing design approach to facilitate a brand new portfolio of products that enable even greater upgradability and configurability with next-gen CPUs and high-speed I/O interfaces.

High-Performance Challenges Advancing Innovations

And in response, adding to its expanding COM-HPC computer-on-module product family, Portwell introduces the COM-HPC Client Type Size B module (120mm x 120mm), based on the latest COM-HPC Revision 1.0, powered by the 13th Gen Intel Core embedded processors.

More specifically, based on the advanced COM-HPC computer-on-module architecture, the PCOM-B883VG2 is powered by the Intel Core mobile processor series which provides up to 14 cores combining 6 Performance-cores (P-cores) and 20 threads compute capabilities, 24 MB Intel Smart Cache, integrated Intel Iris X^e graphics enhancing fast and dynamic visual processing and AI inference, as well as industrial-grade features and AI intelligence in challenging IoT edge computing environments. Built upon the Intel 7 advanced lithography processor series also offers excellent energy efficiency, making it particularly suitable for design solutions for edge computing.

One COM-HPC Solution Enabling Applications Across Industries

Built with high scalability and I/O performance, the Portwell PCOM-B883VG2 COM-HPC Client Type Size B module is suitable for diverse use scenarios, not only as an enabler in edge servers, but also as a core computing component in high-performance embedded computers, delivering greater performance for medical equipment, industrial systems, ruggedized field computers, defense systems, and many more.

The PCOM-B883VG2 delivers high-performance CPU/GPU capabilities for edge AI computing on a compact form factor for reliable operations under limited cooling conditions. An example use case is at the manufacturing facility in embedded systems combined with security cameras, and through utilizing AI technologies to identify unauthorized personnel who has the authorized right to access the factory, as well as is compliant with properly using standard personal data.

In medical devices, the PCOM-B883VG2 supports a variety of high-speed I/O interfaces, including PCIe 4.0, pairing with FPGA/accelerator chips to optimize high-performance connectivity for compute acceleration in medical/healthcare devices deployed in placement/space constrained conditions, such as ultrasound, CT, MRI, etc.

Complete Product Design, Technical Expertise and Project Experience

As a dedicated industrial and embedded computing solution provider with more than 30 years of comprehensive project support for product design, design guidelines, circuit diagram reviews and technical certifications and certification processes. Portwell also offers a latest product roadmap for customers' forward planning and new projects.

Portwell's PCOM-B883VG2 COM-HPC Client Type Size B module is a high-performance and greatly scalable embedded computing design options for a broad spectrum of applications.

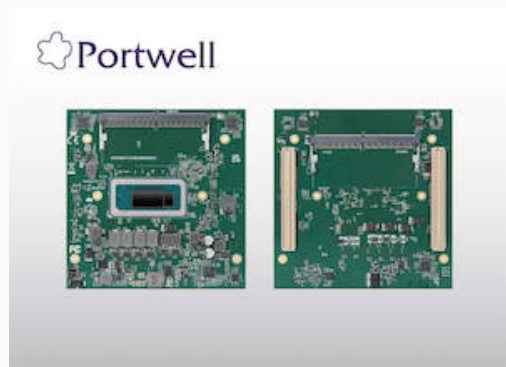
industrial control and edge/network communication.

PCOM-B883VG, COM-HPC Client Type Size B Module with 13th Gen Intel® Core™ on Intel 7 Pro

- Up to 14 cores compute capabilities with 6 Performance-cores (P-cores) and 8 Efficient-cores (E
- Intel Iris X^e graphics with up to 96 EUs
- 2x DDR5-4800 non-ECC SO-DIMMs up to 64GB
- 1x PCIe Gen5 x8 (selected SKUs), 2x PCIe Gen4 x4, and 8x PCIe Gen3 x1
- 2x USB4, 2x USB3.2 Gen 2, 8x USB2.0, 2x SATAIII, 3x DDI, eDP
- 5GbE based on Intel Ethernet Controller I226 Series with Intel TCC/TSN

[For more information, please Click Here to view our Application Note.](#)

PRODUCT



COM-HPC Client module Size B module with Intel Series Processor DDR5 SO-DIMM, DDI, PCIe Gen 2.5 Gigabit TSN Ethernet, discrete TPM 2.0, eDP

Sample Read

OTHER NEWS

Portwell Releases a Series of Industrial Motherboards, COM Express/COM-HPC Systems Designed with 13th Gen Intel® Core™ Processors

Portwell Inc., a leader in Industrial IoT computing solutions and a Titanium Partner of the Intel® Partner launch of a new series of products designed with the 13th Gen Intel® Core™ processors, including m Single Board Computers ...

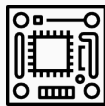
PCOM-B800GT: A COM-HPC Server Type Size E Module with Intel® Xeon® D. Dynamic Element to Empower “Smarter” Edge IoT

Because computing—visible or ambient—is everywhere, operating 24×7 nowadays, embedded cor challenges, including but not limited to, high-performance multi-core processing with AI capabilities, critical environment deployments, and enhanced ...

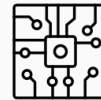
NANO-6064 Empowers IoT Edge Use Cases with AI and Real-Time Computing Digital Signage and Automation Applications

Portwell, Inc., a world-leading innovator for Industrial PC (IPC) and embedded computing solutions, in partnership with Intel® Partner Alliance, announces the NANO-6064 Nano-ITX form factor (120mm x 120mm) embedded computing module featuring power Intel Atom® processors x7000E series, Intel® ...

PRODUCT CATALOGS



Module Computing Service



IPS Board Solution



Industrial Panel PC Solution Guide



Advanced Network Solution

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