

Premio Now Offers Intel® 10th Generation Embedded Processors in Fanless Industrial Computers

New RCO-6000-CML incorporates mix and match modular “EDGEboost nodes” to boost performance in AI workloads and machine learning at the rugged edge

GREATER LOS ANGELES, CALIFORNIA, UNITED STATE OF AMERICA, May 16, 2022 /EINPresswire.com/ -- [Premio Inc.](#), a global leader in rugged edge and embedded computing technology, today released its [RCO-6000-CML AI Edge Inference Computers](#) now

supporting Intel® 10th Generation CML-S (Comet Lake S) and Xeon® W processors. This industrial-grade computing machine is the latest addition to Premio's flagship line (RCO-6000 Series) of fanless and high-performance socket-type designs, enabling powerful processing for workloads that require intelligent automation, machine learning, and even IoT data telemetry.

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The RCO-6000-CML AI Edge Inference computer was engineered for machine learning workloads that rely on hardware acceleration through a variety of transformative technologies”

Dustin Seetoo, Director of Product Marketing

high-speed NVMe storage.”

A key differentiator for the RCO-6000-CML AI Edge Inference computer is its two-piece modular design, allowing system integrators to mix and match performance-based nodes directly for any



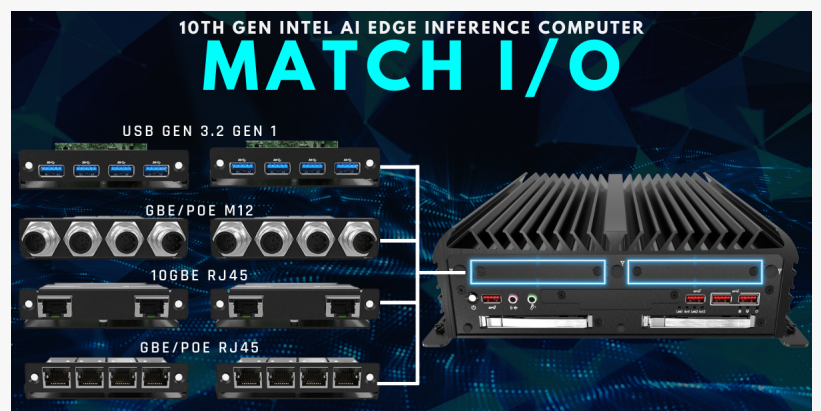
RCO-6000-CFL Banner Thumbnail

workload. Upgrades for next-generation processors are hassle-free and can be easily integrated across a variety of Premio's "EDGEboost" nodes. Users can select performance nodes that provide options in NVMe storage, high-density SATA storage, and even GPU/M.2 acceleration modules for real-time machine learning applications. This unique mechanical design provides both a rugged and fanless industrial computer that meets performance acceleration requirements for even faster processing speeds in real-time. To learn more about the EDGEBoost nodes available for the RCO-6000-CML, read the [product brief here](#).

In addition its rich I/O options from the motherboard, the RCO-6000-CML AI Edge Inference computer utilizes Premio's dual slot bracket for modular I/O daughterboards. This specific design supports up to x8 additional LAN & PoE in wired RJ45/M12 connectors, x8 USB 3.1 gen 2 ports, x4 10GbE in RJ45 connectors, and even a 5G ready module for low-latency wireless connectivity. Applications that require a variety of I/O connections to IoT sensors can leverage these add-on modules for additional benefits.

"Greater demands for automation and real-time processing require even more I/O connectivity to consolidate analog and digital workloads," Seetoo added. "Here, our modular daughterboards enable a key advantage for system integrators, increasing flexibility for them to match exact I/O with their edge-level deployments."

The RCO-6000-CML AI Edge Inference Computer leverages rich performance enhancements provided by Intel® 10th Generation CML S Processors and W480E Chipset support. The LGA1200 socket design is combined with Intel's W480E chipset to deliver augmented peripheral performance for low latency edge responsiveness. A key feature in this release is the ability to



RCO-6000-CML Modular IO



Premio Inc Brand Logo

use Intel® XEON® processors for server-grade performance in a fanless thermal profile. The Intel® XEON® W-1290TE is a 35W TDP processor that delivers 10 cores for multitasking and even supports error correction code (ECC) memory for data redundancy in mission-critical applications. Implementing XEON® processors ensures powerful and reliable performance benchmarks amid the most compute-intensive applications. Gigabit wireless speeds, PCIe 3.0 lanes, SATA ports, and high-speed USB 3.2 Gen 2 also enable RCO-6000-CML AI Edge Inference Computers with excellent I/O integration options for transmitting data to and from sensory devices sitting at the edge.

The RCO-6000-CML is extremely modular and comes configurable with EDGEBoost Nodes for performance-driven building blocks. The base model RCO-6000-CML Series is a fanless, rugged computing solution capable of performing powerful computing at the edge while enduring harsh environmental conditions. Industrial-grade fanless designs ensure better reliability in wider temperatures (-25C to 70C), wider input voltages (9-48VDC), and even resistance to shock (50G) and vibrations (5GRMS). The top node can also be configured with x3 2.5" SATA SSDs, 1x internal 2.5" SATA SSDs at 9mm height, and 2x external hot-swappable SATA SSDs at 7mm height.

Several optimized technologies have converged to promote real-time, in-depth responsiveness at the edge. Multi-core CPUs and advanced GPUs stand ready to perform numerous parallel processes, while 5G, 10GbE, and speedier I/O technologies wait to receive and offload volumes of rich data. SSD (solid-state drive) storage offers a vastly quicker and structurally more rugged data repository than its HDD (hard disk drive) counterpart. IoT integrators and industrial automation operators can rely on the RCO-6000-CML AI Edge inference computer to manage the most complex workloads in space-constrained deployments that experience harsh environmental conditions. Premio's AI Edge Inference Computers are tested and validated to ensure reliable performance amid deployments in the harshest environmental settings.

The RCO-6000-CML AI Edge Inference computer can process an influx of data and make critical decisions in real-time with its performance-based features. Key benefits are better responses to situational data, low-latency data processing, and mission critical business insights based on actionable intelligence.

To learn more about Premio's AI Edge Inference Computer and its performance acceleration EDGEboost nodes, please visit www.premioinc.com or contact our embedded computing experts at sales@premioinc.com.

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About Premio, Inc.

Premio is a global solutions provider specializing in computing technology from the edge to the

cloud. We design and manufacture highly reliable, world-class computing solutions for enterprises with complex, highly specialized requirements for over 30 years. Our engineering specialty and agile manufacturing push the technical boundaries in Embedded IoT Computers, Rugged Edge Computers, HMI Displays, and HPC Storage Servers.

Premio provides robust product engineering, flexible speed to market, and unlimited manufacturing transparency from strategic locations in the U.S., Taiwan, Malaysia, and Germany. Learn more by visiting our website at <https://premioinc.com/>.

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