World-Class Industrial Computers.
World-Class Certifications.

Advantages of UL Listed

- Compliance with safety standard IEC 62368-1 3rd Ed.
- Wide UL Listed portfolio of industrial computers
- Deploy confidently with safety compliance
- OEM and system integrator friendly
- Turnkey deployment and Rapid go-to-market

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Key Applications

| Industrial/Factory Automation | Medical Inferencing | NVR Surveillance | Smart Kiosk Machines | Vehicle Fleet Telematics | Oil & Gas Assets | Marine Solutions | Security & Defense |

Premio now carries the Underwriter Laboratories Certifications or UL Certifications on its portfolio of industrial computing solutions across multiple flagship product series of hardened and ruggedized computers. The UL Listed compliance indicates Premio industrial computers are tested and verified to meet the IEC 62368-1 3rd Edition safety standards that is defined in the UL 62368 Ed. 3 by Underwriter Laboratories (UL).

Premio is committed to delivering cutting-edge rugged and industrial-grade computing solutions that meet the highest industry standards for safety, quality and reliability. Our commitment to excellence is exemplified by our UL certification, a mark of safety and quality that sets us apart in the industry. With UL certification, our rugged and industrial computers have undergone rigorous testing to ensure they meet the highest safety standards in the market. From extreme temperatures, shock and vibration, electrical safety, fire hazard safety, and mechanical wiring/cabling, our computers are engineered to excel in challenging conditions, making them ideal for a wide range of mission-critical applications.

Types of Tests Conducted for Industrial PCs UL Certification

Type of Testing	Description	Standard
Electrical Safety Testing	Electrical components are limited to produce up to certain output rating	ES1 (SELV for IEC 60950-1)
Fire Hazard Testing	Materials will stop burning under a specific time limit	UL 94
Mechanical Testing	Wiring and cabling components are insulated with compliant materials	UL AVLV2

Whether you need computing solutions for industrial automation, intelligent transportation, smart energy, or any other demanding sector, our UL-certified computers offer a dependable foundation for your critical operations. Discover the reliability, durability, and performance of our UL-certified solutions and take your industrial grade computing equipment to new heights with Premio Inc.

UL 62368-1 & IEC 62368-1:
UL Compliance and Testing with IEC Safety Standards

IEC 62368-1 is an international safety standard published by the International Electrotechnical Commission (IEC). It is titled "Audio/video, information and communication technology equipment - Part 1: Safety requirements." This standard defines safety requirements for various types of audio, video, and information technology equipment, including devices used in commercial, residential, and industrial settings. Industrial computers fall into this category and must meet rigorous testing requirements to ensure compliance for safety.

The standard adopts a hazard-based safety engineering (HBSE) approach, which means that it focuses on identifying potential hazards associated with equipment and implementing measures to mitigate those risks. It takes into account potential hazards such as electric shock, fire, mechanical hazards, and energy sources. IEC 62368-1 3rd Edition, being the most recent revision to the standard, is the successor to two previous standards: IEC 60065 for audio/video equipment and IEC 60950-1 for information technology equipment. Same as UL, the most recent version is the UL 62368-1 Ed. 3.

IEC 62368-1 3rd Edition and UL 62368-1 Ed. 3 are related in that they both address the safety requirements for audio, video, information, and communication technology equipment. UL-62368-1 Ed. 3, on the other hand, refers to the certification standard offered by Underwriters Laboratories for assessing compliance with the requirements of IEC 62368-1. It's important to note, UL-62368-1 refers to the UL certification process for assessing compliance with IEC 62368-1 and does not have a separate standard of its own but aligns with the current edition of the IEC standard. In summary, compliance with either IEC 62368-1 3rd Edition or UL-62368-1 helps ensure adherence to safety standards for products related to Audio/Video, Information and Communication Technology Equipment (AZOT).

Confidently Enter Global Markets with UL

Premio's portfolio of industrial computers carries the prestigious U.S. and Canada UL Listed safety marks. This certification is particularly significant for the North American market, where UL's recognition is paramount and widely recognized. However, it is essential to note that UL has a robust global presence, achieved through extensive collaborations with international bodies and standards organizations. With the UL listed safety marks for our products, OEMs and system integrators can have the confidence to select from a complete portfolio of rugged and industrial computing solutions for turnkey deployments.

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North America

US and CA

Europe

Asia Pacific

Middle East/Africa

Latin America

Oceania

UL Solutions — Premio UL Listed Solutions

Industrial-Grade Computers

BCO-1000-EHL
Fanless Mini Computer with Intel® Celeron® J6413 Processor

RCO-1000-EHL
Rugged Fanless Mini Computer with Intel® Celeron® J6413 Processor

BCO-2000-WHL-U
Fanless Mini Computer with 8th Gen Intel® Core™ Mobile-U/Celeron® Processor

BCO-2000-RYZ
Fanless Mini Computer with AMD Ryzen™ Embedded R1000/V1000 Series

RCO-3000-CML
Small Form Factor Computer with 10th Gen Intel® Core™ Processor

RCO-6000-CML
AI Edge Inference Computer with 10th Gen Intel® Core™/Xeon® Processor & W480E PCH

KCO-2000-CFL
Fanned 2U Industrial Computer with 9th Gen Intel® Core™ Processor

KCO-3000-CFL
Fanned 3U Industrial Computer with 9th Gen Intel® Core™ Processor

Industrial-Grade Supercapacitors

ECO-1000
EDGEBoost EnergyPack
8x/16x SuperCAP Backup System

BCO SERIES FANLESS MINI COMPUTER

Fanless mini computers are industrial-grade computing solutions purpose-built to deploy reliably into challenging environments. These ruggedized compact edge solutions manage workloads for processing, storage, and connectivity. Now UL-Listed, these Fanless Mini Computer Series have established a trustworthy reputation for competent operational reliability.

	BCO-1000-EHL Series	**BCO-2000-WHL-U**	**BCO-2000-RYZ-V1605B**
	Up to 3x EDGEBoost I/O	2x Scalable I/O	
Processor	Intel® Celeron® J6413 Processor (10W TDP)	Intel® Core™ 8th Gen. and Celeron® Processor	AMD Ryzen™ Embedded R1000/ V1000 Series
Certification	UL 62368 Ed. 3, CE, FCC Class A		
Operating Temperature	-20°C to 50°C	-20°C to 60°C	-20°C to 55°C
Vibration	With SSD: 5 Grms, 5- 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5- 500 Hz, 0.5 hr/axis	With SSD: 3 Grms, 5- 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5- 500 Hz, 0.5 hr/axis	
Shock	With SSD: 50G, half sine, 11ms	With SSD: 20G, half sine, 11ms	
Dimensions (W x D x H)	142 x 101.2 x 41.5 mm (Height up to 75 mm)	140 x 192 x 61 mm	140 x 192 x 57.6 mm

RCO SERIES RUGGED EDGE COMPUTER

Specific Edge Deployments Require Specific Edge Computers. The RCO Series provides reliable industrial-grade edge compute in three standardized form factors. Each RCO Series are designed for IIoT deployments and offer scalable EDGEBoost technologies through additional performance acceleration with EDGEBoost Nodes and configurable connectivity options with EDGEBoost I/O. Certified by UL, Premio's flagship RCO series industrial computers are further proven to operate reliably and safely in industrial climates.

	RCO-1000-EHL Series	**RCO-3000-CML**	**RCO-6000-CML** Series
	Up to 3x EDGEBoost I/O	1x EDGEBoost I/O	2x EDGEBoost I/O Support EDGEBoost Nodes
Processor	Intel® Celeron® J6413 Processor (10W TDP)	Intel® 10th Gen. CML S Processor	Intel® 10th Gen CML S Processor (65W/35W TDP) or Optional Intel XEON-W CPU
Certification	UL 62368 Ed. 3, CE, FCC Class A	UL 62368 Ed. 3, CE, FCC Class A, EN50155: EN50121-3-2	UL 62368 Ed. 3, CE, FCC Class A
Operating Temperature	-40°C to 70°C	-25°C to 70°C	-25°C to 70°C
Vibration	With SSD: 5 Grms, 5- 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5- 500 Hz, 0.5 hr/axis		
Shock	With SSD: 50G, half sine, 11ms		
Dimensions (W x D x H)	150 x 105 x 49 mm (Height up to 83 mm)	192 x 227 x 60.3 mm	240 x 261 x 79 mm (Height up to 166.9 mm)

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KCO SERIES FANNED INDUSTRIAL COMPUTER

The KCO Series are fanned COTS (commercial off-the-shelf) industrial computers purpose-built for rapid time-to-market IIoT deployments. It offers extended lifecycle longevity, versatile server-rack mounting options, and houses our industrial mATX motherboard support 9th Gen Intel Core processors.

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KCO-2000-CFL   **KCO-3000-CFL**

	KCO-2000-CFL	KCO-3000-CFL
Processor	Support 8th/9th Gen Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP)	
Chipset	Intel® Q370 Express Chipset	
Memory	2x 260-Pin DDR4 2400/2666MHz SODIMM. Max. up to 128GB	
Display	Triple Independent Displays: 2x DP 1.2, 1x DVI, 1x VGA	
M.2 Storage	1x M.2 (M Key, NVMe PCIe x4, 2280) 1x M.2 (E Key, PCIe x2, USB 2.0, 2230)	
SSD/HDD	1x Hot-Swappable 2.5" SATA Drive Bay (support H=7mm)	1x 3.5" SATA HDD drive or 2x 2.5" SSD/HDD up to 15mm
PCIe Expansion	1x PCIe x16 slot (low profile, up to 9" card length)	1x PCIe x16 (full height, up to 10" card length) 2x PCIe x4
IO	1x Mic-in, 1x Line-out, 2x RS-232/422/485 + 2x RS-232, 2x RS-232 (internal header), 2x RJ45	
	6x USB 3.0 7x USB 2.0	4x USB 3.0 6x USB 2.0
Power	AT, ATX | Standard US power cord	
	Internal 250W Flex Power Supply	Internal 300W Flex Power Supply
Operating Temperature	0°C to 35°C	0°C to 45°C
Certification	UL-Certified, CE, FCC Class A	
Form Factor	2U 12.73"(W) x 10.75"(D) x 3.45"(H)	3U 13.15"(W) x 11.78"(D) x 5.23"(H)

WE DESIGN, MANUFACTURE, AND SERVICE CUSTOMERS AROUND THE WORLD

CALIFORNIA(HQ)
ILLINOIS
GERMANY
TAIWAN
MALAYSIA

NEW

ECO-1000 SERIES EDGEBoost EnergyPack

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Model	ECO-1000	
Capacity	ECO-1000-8S for 8x 370 Farads Supercapacitor	ECO-1000-16S for 16x 370 Farads Supercapacitor
Input Voltage	12 ~ 35 VDC	
Input Connector	3-pin Terminal Block (V+, GND, IGN IN)	
Output Voltage	Charge mode: DC IN Voltage bypass (DC OUT = DC IN) Discharge mode: 12 or 24V	
Output Power	Maximum 100W output	Maximum 200W output
Output Connector	3-pin Terminal Block (V+, GND, IGN Out)	
I/O	1x RS-232, 1x USB Type A, 2x DI + 2x DO with isolation	
Others	1x Remote Power On/Off 1x Smart Mode Switch 1x Mode Reset Switch	
Power Ignition Sensing	Power Ignition Management	
Display Module	Optional LCM Display and Button Module	
Operating Temp	-25°C to 55°C	
Certification	CE, FCC Class A, UL 62368-1 Ed. 3 EMC Conformity with EN50155, EN50121-3-2	
Dimensions (WxDxH)	100 x 192 x 187.4 mm	
Weight	1.8 kg	2.8 kg
Mounting	Wall Mounting, DIN Rail Mounting (Optional)	