premio

INDUSTRIAL COMPUTING SOLUTIONS FROM THE EDGE TO THE CLOUD

PRODUCT SOLUTION GUIDE 2026

BUILT RUGGED. BUILT READY.

Ignition! READY

aws Qualified Device AWS IoT Greengrass

intel prestige partner

NVIDIA Elite Partner

YOUR TOP CHOICE PARTNER IN INDUSTRIAL COMPUTING FROM THE EDGE TO THE CLOUD

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 35+ years. Our engineering specialty and agile manufacturing pushes the technical boundaries in Embedded IoT Computers, Rugged Edge Computers, HMI Displays, Panel PCs, and SuperCAP UPS Systems.

At Premio, we go to extraordinary lengths to solve the most formidable challenges faced by our customers. We do so by becoming more than their partner: we become their 'Inside Outsource' - an extension of their businesses, work cultures, manufacturing processes and operations, modulating our solutions to answer their special needs with speed, agility and precision.

Headquartered in Los Angeles, California, with a state-of-the-art manufacturing facility certified to ISO 9001, ISO 14001, and ISO 13485, Premio Inc. operates through strategic global locations—including a Taiwan facility certified to ISO 9001, ISO 14001, and IEC 62443-4-1.

With deep expertise in rugged product engineering, flexible speed-to-market, and end-to-end manufacturing transparency, Premio is committed to delivering next-generation industrial PC and edge AI solutions that meet the highest international standards and certifications—empowering customers across mission-critical industries.

- Industrial Automation
- Railway and Transportation
- Food & Beverage
- Military
- Kiosk & Retail
- Security & Surveillance
- Intelligent Healthcare
- Machine Vision & Robotics

OUR MISSION

Premio dedicates its engineering resources and manufacturing services to meet the incredible demands of computing across industrial and enterprise deployments. Our global teams strive for the highest standards in innovation and technology that translates into the design and mass production of our purpose-built computing solutions.

OUR VISION

“Your Success, Our Commitment.” With this simple vision, Premio aims to address computing challenges with purpose-built products. Premio solves challenges for our customers by delivering solutions around the design, integration, validation, and deployment of our computing products in IoT and edge markets. Our 35+ years of industry-knowledge enable our customers to leverage high quality products and application-ready hardware for a faster time to market.

OUR CORE VALUES

We deliver our core brand values through the way we conduct business. Premio's core values of Innovation, Commitment, Collaboration, Agility, and Accountability guide our decisions to exceed expectations.

AGILITY

We are flexible, adaptable, and responsive to the change in demands of our customers, the market, and our environment. We are willing to learn and create new ideas to drive and embrace changes actively.

INNOVATION

We constantly strive to drive innovation into all aspects of our business to provide products that deliver reliability, quality, performance, and value creation.

COLLABORATION

We work together to contribute to the development of new products and services that will ensure the success of our customers.

ACCOUNTABILITY

We always hold ourselves accountable for our products, services, and actions to our employees, customers, and partners.

COMMITMENT

We offer our valued customers the highest possible standards of solutions. At Premio, we treat customers with dignity, respect, and courtesy. We listen objectively to their needs and respond in a timely, efficient, and responsible manner.

OUR VALUE

Apart from our standard computing offerings, Premio also provides unique value to our customers through our robust engineering resources, environmental testing validation, manufacturing scale, supply chain & product lifecycle management, reverse logistics, and next generation computing design and innovation.

US BASED COMPANY WITH WORLDWIDE OPERATIONS

A STORY OF GROWTH & EVOLUTION

1989-2000

Premio, which means “Prize” in Spanish, emerged as “Premio PC”, a personal computer manufacturer providing computers nationwide to many educational programs (K-12) around the nation.

From its inception in 1989 to 2000, Premio pioneered and remained a trusted partner and manufacturer for many educational institutions in the United States.

2000

As computing technology advanced and became more commoditized, Premio proved to be resilient and achieved another milestone by evolving itself from its own personal computer in 2000 into a respectable contract manufacturer – providing a variety of highly specialized turnkey OEM integration processes and business services for some of the world’s elite computing companies; many of which still exist today in its global operations.

This monumental shift demanded Premio to move its operational infrastructure into a fully automated 150,000 square feet Los Angeles based manufacturing facility that was fully customized for ultimate flexibility and unlimited scalability. Even today Premio’s world-class manufacturing facility continues to be a testament for state-of-the-art automation and assembly for many leading OEMs in computing technology.

2000-2011

Starting from the year 2000, “Premio PC” transformed its brand identity into “Premio Inc.” – becoming a pivotal partner and key advisor in manufacturing and servicing premier technology companies around the world. Furthermore, Premio also restructured its mission and core values around a customer-centric business model with “total customer satisfaction” driving its core.

By 2010, Premio Inc. achieved yet another milestone by successfully engaging with over 50+ customers worldwide ranging from enterprise level companies to start-ups that were eventually acquired by major fortune 500 companies.

2011-2017

In 2011 Premio decided to once again refine its business operations and developed more advanced technologies by investing into the research and development of home grown purpose-built Premio products in:

- Enterprise Servers and Storage Solutions
- Industrial Embedded Computing Solutions
- Industrial Touch Display Solutions

By combining our home grown products with our design capabilities plus our renowned OEM services, Premio’s advantage lies within its ability in providing a customized turnkey solution that can scale efficiently but also seamlessly align with the goals of our customers, resulting in ROI growth and measurable success over time.

Premio expanded its global footprint with the establishment of a Taiwan facility in New Taipei City, strengthening its capabilities in R&D, product engineering, and manufacturing to scale worldwide delivery of industrial computing solutions.

Present

Today, Premio has successfully evolved into a full-service technology company that specializes in top-notch computing designs, scalable manufacturing for both variety and volume, and robust end-to-end business services that result in streamlined growth and success with global expansion

(Design – Manufacturing – Services)

THE EDGE CONTINUUM

Industrial Edge Computer Series

The Edge Continuum spans a broad spectrum of computing solutions, from the remote constrained edge to the cloud edge servers, enabling instant data analytics, seamless connectivity, and robust control across all layers of industrial operations. Our Industrial Computers and Panel PCs seamlessly integrate within the "User Edge," where low-latency computing and industrial-grade durability are paramount. Our computing solutions are segmented into three layers within the User Edge Continuum—Industrial Edge, Rugged Edge, and Specialized Edge.

USER EDGE | SERVICE EDGE / CLOUD


Constrained Edge


End User Edge


Distributed Edge


Data Center Edge Cloud

Industrial Edge

- Controlled Environments
- Fanless Cooling Design
- Dust, Shock, and Vibration Resistant
- Standardized Form Factors
- Durable and Cost-Effective
- Long Lifetime Support

BCO Series

Fanless Industrial Computers

The BCO series provides a comprehensive range of computing power, making it ideal for diverse industrial edge applications that require reliable, dust-resistant, and long-lifespan solutions.

Rugged Edge

- Extreme Environments
- Wide Operating Temperature
- Powerful Computing Capabilities
- Supports EDGEBoost Technology for I/O, M.2, and PCIe Customization
- Reinforced Durability

RCO Series

Super-Rugged Computers

The RCO series is engineered for ultimate industrial durability and unparalleled customizability, creating a unique blend of ruggedness and flexibility.

JCO Series

Jetson EDGE AI Computers

The JCO series, powered by the NVIDIA Jetson platform, delivers an optimal balance of energy efficiency and AI performance, achieving high throughput (TOPS) in a fanless design built for extreme industrial environments.

Specialized Edge

- Designed for Industry-Specific Needs
- Validated with Niche Certifications
  - EN50155 (Railway)
  - EN45545 (Fire Safety)
  - E-Mark (In-Vehicle)
  - IP68/IP69K (Waterproof)

DCO Series

DIN RAIL Fanless Computers

WCO Series

WATERPROOF INDUSTRIAL COMPUTERS

ACO Series

EN50155 Railway & In-Vehicle

VCO Series

X86 RUGGED EDGE AI WORKSTATIONS

KCO Series

X86 INDUSTRIAL EDGE AI WORKSTATIONS

DELIVER INTELLIGENCE AT THE END USER EDGE

Our touchscreen computer series are available across the three User Edge segments, providing a wide variety of options for end-user applications. Additionally, the displays on our touchscreen computers (Panel PCs) can be configured with multiple optional features, such as PCAP or resistive touch, optical bonding, high-brightness 1000+ nits displays, and various mounting options. Our Panel PCs are available in sizes ranging from 10" up to 24" with 4:3 and 16:9 Full HD displays. Explore each Panel PC series to discover the unique features each solution offers.

USER EDGE | SERVICE EDGE / CLOUD


Constrained Edge


End User Edge


Distributed Edge


Data Center Edge Cloud

Industrial Edge

- Controlled Environments
- Flexible Performance
- Fanless Cooling Design
- IP65 Front Display
- 10"-21" Full HD Displays
- Extended MTBF

AIO Series

All-In-One Touchscreen Computers

The AIO Series is an all-in-one touchscreen computer designed to deliver efficient edge computing through its Intel X86 and Rockchip platforms, supporting various operating systems including Windows, Linux, and Android.

HIO Series

Open-Frame Touchscreen Computers

The HIO Series is an open-frame touchscreen computer with versatile I/O and connectivity options. The HIO Series leverages power-efficient X86 Intel platforms for various kiosks and open-frame mounted applications.

Rugged Edge

- Industrial Environments
- Various Computing Capabilities
- Wide Temperature Range
- Shock & Vibration Resistant
- Reinforced Durability
- Fit for Demanding Edge Applications

VIO Series

Modular Touchscreen Monitors & Computers

The VIO Series is a unique, modular IP65 touch display system that allows VIO displays to be configured as either a touchscreen computer or a touchscreen monitor. VIO displays can be paired with different modules for monitor (MX Series) or computer (PC Series) functionality.

MX Series

PC Series

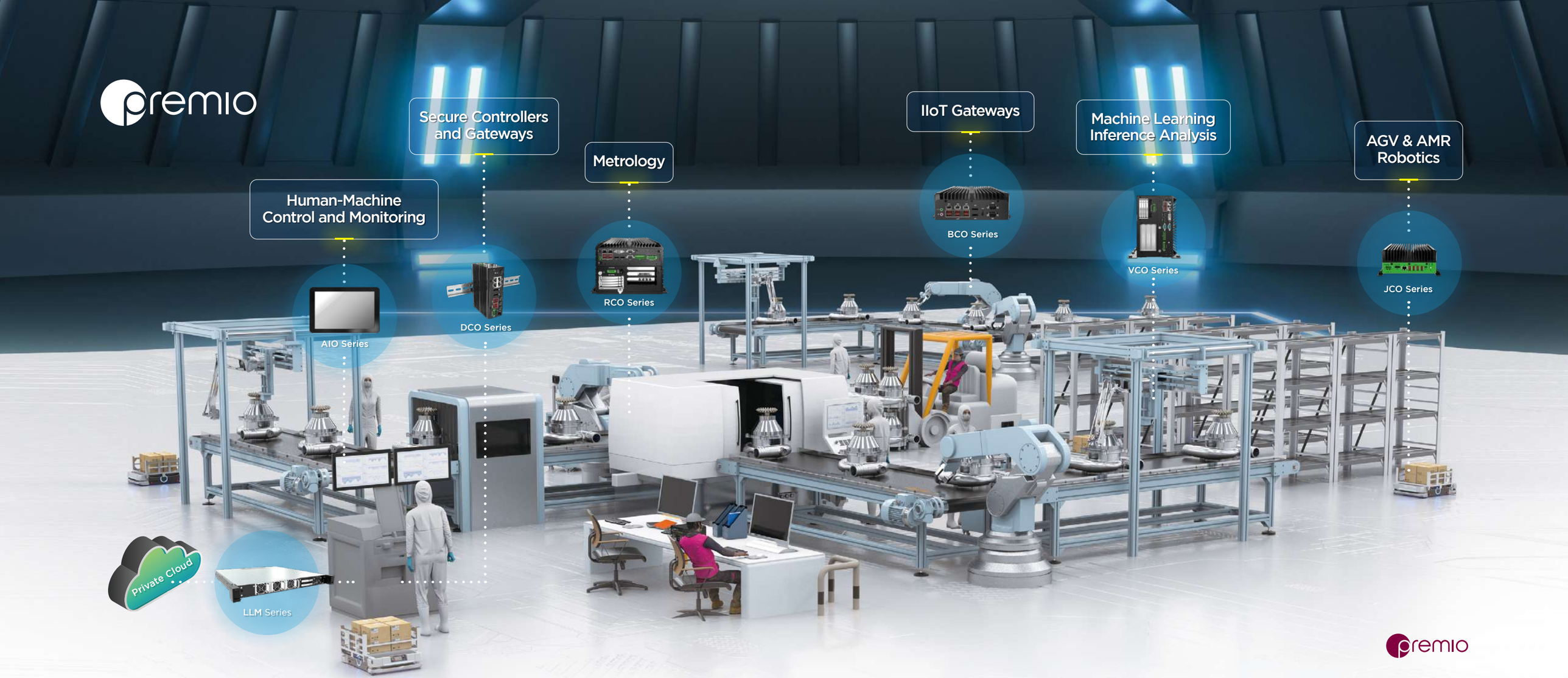
Specialized Edge

- Tailored for Industry-Specific Needs
- Includes IP66/IP69K Waterproof, SUS-316 Stainless Steel, and Optical Bonding
- Targeted Functionality for Specialized Applications

SIO Series

Stainless Steel Touchscreen Computers

The SIO Series is an IP66/IP69K-rated Panel PC built with full SUS-316 stainless steel construction, offering superior waterproof and corrosion-resistant protection during intense washdowns.



Edge Computing Powering AI Factories

Rugged, reliable systems built for automation

The AI Factory merges intelligence, automation, and data into a self-learning ecosystem that turns sensor inputs into real-time action. Powered by edge and on-prem AI inference, it connects the physical and digital worlds to drive smarter, faster, and more resilient manufacturing.

Benefits of Edge-Native Intelligence

- Immediate decisions with zero cloud latency
- Continuous operation even during network outages
- Localized security to protect sensitive data
- Systems that adapt and learn in real-world conditions

Key Technologies in AI Factories

Intelligence is built through connected layers working together to power smart, autonomous operations.

AI Inference

Powering Real-Time Intelligence

At the core of every AI Factory lies inference — where trained models analyze real-time data to generate decisions and predictions. This is where intelligence becomes action.

Testing and Digital Twins

Before deployment, agentic AI systems are trained and optimized through digital twins—data-driven replicas of factory environments that simulate and predict real-world operations

Automation and Orchestration

Manages and secures distributed AI systems after deployment, ensuring consistent performance and lifecycle control across edge nodes.

PHYSICAL AI

Edge Intelligence for Robotics & Autonomous Systems

- AMR / AGV Navigation
- Robotics & Cobot Vision
- Multi-Sensor Fusion
- High-Speed Inspection
- VLMs & SLMs

Visit P.43 Visit P.42 Visit P.41

JCO-6000-ORN Series

High-Performance AI Edge Computer with NVIDIA Jetson AGX Orin Processor

275 TOPS AGX Performance	**4x PoE** RJ45 or M12
EDGEBoost I/O Modular I/O Expansions	**8x** GMSL2 Cameras

JCO-3000-ORN Series

Mid-Range AI Edge Computer with NVIDIA Jetson Orin NX/ Nano Processor

Jetpack 6 Support Latest Jetpack	**CAN** CAN 2.0 and Power Ignition
COM, DIO RS 232/422/485 8 in/out (Isolated)	**4x** LAN or PoE

JCO-1000-ORN Series

Entry-Level AI Edge Computer With NVIDIA Jetson Orin Nano & NX Processor

157 TOPS Super Mode	**2x** RJ45/ M12 LAN
Mini 150 x 105 x 65 mm (W x D x H)	**4x** GMSL2 Cameras

On-Prem LLM Inference
Multimodal AI Agents
AI Workflows & Pipelines
Private Data Analytics
RAG / Enterprise Knowledge AI

Visit P.59 LLM-1U-RPL

Visit P.57 KCO-6000-ARL

LLM & ON-PREM AI

Local AI Inference for Privacy, Speed, and Control

LLM-1U-RPL Series — LLM Series EDGE AI Rackmount Servers with Intel® 12th/13th/14th Gen

1U Short-Depth Rackmount	**RTX™ PRO 4500** 600W GPU Power Budget	**2x** Hot-Swap SSDs	**600W** Dual Redundant Power Supplies

KCO-6000-ARL Series — Edge Work-Station with Intel® Arrow Lake CPU

GEN 5 PCIe Generation	**Blackwell** 600W GPU Power Budget	**DDR5** High-Speed Memory	**Arrow Lake** Core Ultra Series 2

RAILWAY & ROLLING STOCK

Certified Computing for Train Control & Passenger Systems

EN50155 Railway Certified

ECO-1000 Series

EDGEBoost EnergyPack: Industrial-Grade Supercapacitor UPS

- **EN50155** Railway EMC Certified
- **200W** Power Output
- **10+** Years Longevity
- **Smart** Remote Management

ACO-6000-RPL Series

Railway & In-Vehicle Fanless Computer with Intel® 12th/13th/14th Gen CPU

- **EMC Conformity** EN50155 & EN50121-3-2
- **8x** M12 or RJ45
- **2x EDGEBoost I/O** Modular I/O Technology
- **2x** Hot-Swap SSDs

WCO-3000-ORN Series

Railway & In-Vehicle Fanless Computer with NVIDIA Jetson Orin NX and Nano

- **IP66** Water-Resistant
- **4x** GMSL Cameras
- **157 TOPS** SUPER Mode
- **4x** M12 PoE

IN-VEHICLE COMPUTING

Rugged Systems for Transport, Fleet, and Mobility

RCO-1000-ASL Series

Super-Rugged Fanless Mini Computer with Intel® Amston Lake Series

- **3x EDGEBoost I/O** Modular I/O Technology
- **-40°C to 70°C** Extreme Operating Temperature
- **MIL-STD-810H** Shock & Vibration Compliance

RCO-3000-RPL Series

Super-Rugged Fanless SFF Computer with Intel® Raptor Lake & Bartlett Lake Processors

- **1x EDGEBoost I/O** Modular I/O Technology
- **-25°C to 70°C** Extreme Operating Temperature
- **EMC Conformity** with EN50155 & EN50121-3-2

RCO-6000-RPL Series

Super-Rugged Fanless Computer with Intel® Raptor Lake & Bartlett Lake Processors

- **2x EDGEBoost I/O** Modular I/O Technology
- **-25°C to 70°C** Extreme Operating Temperature
- **EDGEBoost Nodes** Flexible GPU and NVMe SSD Expansions

MACHINE VISION

Real-Time Detection and High-Speed Optical Inspection

- Automated Optical Inspection (AOI)
- Industrial Quality Control
- 3D Vision & Measurement
- Robotics Vision Guidance
- Sorting & Counting Systems

VCO-6000-RPL Series Visit P.53

X86 Rugged Edge AI Workstations with Intel® Raptor Lake and Bartlett Lake

600W	4x	FLFH
GPU Power Budget	PCIe Gen 4 Slots	GPU Support

KCO-3000-RPL Series Visit P.56

X86 Industrial Edge AI Workstations with Intel® 12th/13th/14th Gen Processors

500W	4x	3U
Internal Flex Power Supply	PCIe Gen 4 Slots	Rackmount

SMART CITY / SURVEILLANCE & AIRPORTS

- AI Video Surveillance
- Traffic & Tolling Systems
- Crowd Management
- Perimeter Detection
- Airport Analytics & Security

RCO-6000-RPL-4N-1E Visit P.31

Visit P.25 BCO-500-MTL

intel ai

BCO-500-ROK Rockchip Visit P.25

Visit P.49 DCO-1000-ASL

Edge AI for Safety, Monitoring, and Operational Efficiency

BCO-500-MTL Series	BCO-500-ROK Series	DCO-1000-ASL Series	RCO-6000-RPL-4N-1E Series
Semi Rugged Fanless Mini Computer with Intel® Meteor Lake Core Ultra Series	**Semi Rugged Fanless Mini Computer with Rockchip RK3568J Processor**	**DIN-Rail Fanless Industrial Computer with Intel® Amston Lake Series**	**Super-Rugged Industrial Computer with EDGEBoost Node Expansion for Edge AI**
Mini 225 x 130 x 48 mm	**Mini** 225 x 130 x 48 mm	**DIN** DIN Rail Mount	**4x** Hot-Swap NVMe
11 TOPS Discrete NPU	**1 TOPS** Discrete NPU	**4x** 2.5 GbE LAN	**3x** PCIe Slots
3x 2.5 GbE LAN	**5W** Ultra Low Power	**OOB** Out-of-Band Management	**10x LAN** Support 8x PoE
USB-C 1x Type-C, 3x Type-A	**-40 to 70°C** Extreme Operating Temperature	**UL61010** Safety Certifications	**RAID** RAID 0/1/5/10

KIOSK & RETAIL SYSTEMS

Secure, Reliable Computing for Interactive Self-Service

- AI Agent Service Kiosks
- Smart Vending & Ticketing
- POS / Retail Automation
- Digital Signage
- Inventory & Shelf Monitoring

AIO-200-ASL Visit P.69

Visit P.65 HIO-200-ADL

Screen Sizes 10.1”~21.5”

AIO-200-ASL

Series

IP65 All In One Touchscreen Computer
with Intel® N97 or X7835RE Processor

SLIM
5 cm Thickness

3x
2.5 GbE LAN

5G
High-Speed Wireless

HIO-200-ADL

Series

IP65 Open Frame Touchscreen Computer
with Intel® Alder Lake N97 Processor

Open Frame
Mount Design

DDR5
16GB Memory

2x
2.5 GbE

RUGGEDIZED PANEL PC

Industrial Touch Interfaces for Harsh Environments

Visit P.75 VIO/PC600-MTL

SIO-300-ADL Visit P.77

- Factory HMI & SCADA
- Food & Beverage Processing
- Outdoor Terminals
- Warehouse Workstations
- Cleanroom & Pharma Control

VIO/PC600-MTL Series

Modular IP65 Industrial Panel PC with Intel®
Meteor Lake Core Ultra 5 125U CPU

12.1”~23.8”
Flexible Display Module

4x
M.2 Expansions

Modular
Display + PC Modules

PCIe
1x PCIe x4 Slot

SIO-300-ADL Series

IP69K Stainless Steel Panel PC with Intel®
Alder Lake CPU

15”~23.8”
FHD Displays

SUS 316
Corrosion Resistant

Optical Bonding
For Clarity and Longevity

M12
Waterproof I/O

3.5" INDUSTRIAL SBC

Compact Embedded Boards for OEM Systems

Embedded Controllers | Portable Devices | Industrial Gateways | Edge AI Data Acquisition

CT-DAS01 Series Visit P.80

3.5" SBC with Intel® Amston Lake Series

-40°C to 85°C	Type-C	2x	2x
Wide Operating Temperature	1x Type-C, 3x Type-A	Displays (HDMI, DP)	2.5 GbE

CT-DML01 Series Visit P.80

3.5" SBC with Intel® Meteor Lake Series Ultra 5 125U / Ultra 7 155U

11 TOPS	Type-C	2x	M.2
AI Performance with NPU	1x Type-C, 3x Type-A	Displays (DP)	E, B, M Keys

INDUSTRIAL BOARDS

Full-Featured Motherboards for Performance-Driven Designs

- Industrial PCs
- AI Edge Systems
- Edge Servers & Workstations
- Medical & Laboratory Devices
- Factory Automation Systems

CT-XAR01 Series Visit P.81

Mini-ITX Industrial Board with Intel® Arrow Lake Series

LG1851	W880	3x	PCIe Gen 5
65W TDP	Chipset	2.5 GbE	High-Speed Expansion

CT-AR701 Series Visit P.83

ATX Industrial Board with AMD Ryzen EPYC Series

AM5	B650	SFP+	PCIe Gen
170W TDP	Chipset	2x GbE, 2x 10GbE SFP	High-Speed Expansion

INDUSTRIAL EDGE COMPUTERS

BCO SERIES
SEMI-RUGGED INDUSTRIAL COMPUTERS

RCO SERIES
SUPER-RUGGED INDUSTRIAL COMPUTERS

JCO SERIES
JETSON AI EDGE INDUSTRIAL COMPUTERS

ACO SERIES
RAILWAY & IN-VEHICLE INDUSTRIAL COMPUTERS

DCO SERIES
DIN RAIL FANLESS INDUSTRIAL COMPUTERS

WCO SERIES
WATERPROOF INDUSTRIAL COMPUTERS

VCO SERIES
X86 RUGGED EDGE AI WORKSTATIONS

KCO SERIES
X86 INDUSTRIAL EDGE AI WORKSTATIONS

ECO SERIES
SUPERCAPACITOR UPS BACKUP SYSTEM

LLM SERIES
EDGE AI RACKMOUNT SERVERS

EDGEBoost TECHNOLOGIES

EDGEBoost Nodes

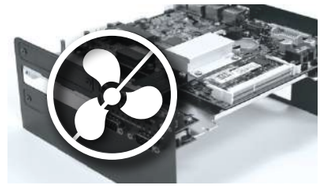
EDGE AI PERFORMANCE ACCELERATORS MODULES

EBND SERIES

EDGEBoost I/O

FLEXIBLE I/O AND M.2 EXPANSION MODULES

EBIO SERIES



FANLESS DESIGN

- Prevent failure/repair/replacement caused by fan part
- Venting holes no longer needed
- Extended MTBF
- No noise

ONE-PIECE DESIGN

- Robust structure
- Less joint parts and screws for higher shock & vibration tolerance
- Easy assembly, disassembly, maintenance
- Sealed housing to prevent dust

POWER PROTECTION

- Over voltage protection
- Over current protection
- Reverse protection

SHOCK & VIBRATION

Fanless computing systems comply with MIL-STD 810H on shock & vibration in order to sustain in environments such as industrial automation, transportation, military, etc.

EXPANDABLE & MODULARIZATION

The modular design approach helps with the ease of installation to achieve rapid deployment, and provide wide variety of configurable options to achieve scalability.

EXTENDED OPERATING TEMPERATURE RANGE

Premio fanless embedded systems support extended temperature to allow applications to function in difficult and harsh environment.

COMMITMENT TO INDUSTRIAL CYBERSECURITY

We have achieved IEC 62443 certification, reflecting our dedication to implementing and maintaining the highest standards of cybersecurity in industrial automation and control systems. This certification demonstrates our ongoing commitment to safeguarding critical infrastructure and delivering secure, reliable solutions.

IEC 62443-4-1 Cybersecurity

INDUSTRY LEADING SAFETY CERTIFICATIONS

Tested and validated with safety certifications ensure product reliability against safety hazards and allow customers to comply with industry-specific regulatory requirements.

E-Mark Certification

EN50155 & EN45545

BCO SERIES

SEMI-RUGGED INDUSTRIAL COMPUTERS

500 Mini

- Intel® Atom® / Core Ultra / Rockchip Processors
- Mini Form Factor
- High-Speed I/O Ports and Wireless Connectivity

1000 Compact

- Intel® Alder Lake / Intel® Atom® Processors
- Power Efficient 12W Performance
- Competitive Price and Long Lifetime Support

3000 Balanced Performance

- Intel® Core Processors
- Powerful 35W Edge Performance
- Up to Triple Displays / Triple RJ45 LAN Ports

6000 High Performance

- Intel® Core Processors
- Powerful 35W Edge Performance
- 2x PCIe Gen 4 Slots with GPU Support

REAL-TIME DATA PROCESSING FOR RUGGED EDGE COMPUTING

The BCO Series are designed and built to withstand deployment in challenging environments, managing workloads at the rugged edge for processing, storage, connectivity, and machine learning. Available in four series, the BCO-500, BCO-1000, BCO-3000, and BCO-6000 Series are capable of accommodating various edge workloads from power efficient computers to scalable GPU computers.

Deployment Ready Solution

Support Expandable GPU

Fast Time To Market

Compact & Ruggedized Design

BCO-500 SERIES MORE

Rockchip

Model	BCO-500-ROK
Processor	Rockchip RK3568J ARM Quad Cortex-A55, up to 2.0GHz
Memory	4GB LPDDR4 2133MHz
Storage	64GB eMMC, MicroSD
Display	1x HDMI (4096 x 2160 @60Hz)
Graphics /AI	Mali-G52 GPU
LAN	2x GbE (RTL8211FDI)
I/O Ports	2x USB 3.0, 2x COM, 1x CAN, Line-Out
Expansion	1x M.2 B-Key (4G/LTE), 1x M.2 E-Key (Wi-Fi/BT), SIM
Operating System	Android 13, Linux Kernel: Debian 11, Ubuntu 22.04
Power Input	12-24V DC, AT/ATX modes
Operating Temp	-40°C to 70°C
Certifications	UL 61010-1/-2-201, CE, FCC A, UKCA, IC
Dimensions (WxDxH)	225 x 130 x 41 mm
Weight	1.2kg

intel

Model	BCO-500-ADL	BCO-500-MTL
Processor	Intel® Alder Lake-N: N97 (12W) / i3-N305 (15W)	Intel® Core™ Ultra 5 125U / Ultra 7 155U (15W)
Memory	1x DDR5 4800/5600 MT/s SO-DIMM, Max. 32GB	1x DDR5 5600 MT/s SO-DIMM, Max. 48GB
Storage	1x M.2 B-Key (SATA/PCIe x1)	1x M.2 M-Key (PCIe Gen4 x4 / SATA, default 128GB)
Display	1x DP 1.4a + 1x HDMI 1.4b (dual independent)	2x DP++ 1.4 (3040 x 2160 @60Hz, dual independent)
Graphics /AI	Intel® UHD Graphics	Intel® Graphics
LAN	2x 2.5GbE (Intel® I225-V)	3x 2.5GbE (Intel® i226-V/LM)
I/O Ports	4x USB 3.2 Gen2, 2x COM, Line-Out	1x USB-C, 2x USB 3.2 Gen1, 1x USB 2.0, 2x COM, Line-Out+Mic
Expansion	1x M.2 B-Key (SATA/NVMe storage), 1x M.2 E-Key (Wi-Fi/BT), 6x antenna holes	1x M.2 B-Key (4G/5G/NVMe), 1x M.2 E-Key (Wi-Fi/BT), SIM
Operating System	Windows 10/11, Linux Kernel (Ubuntu LTS)	
Power Input	12-36V DC, AT/ATX modes	12-24V DC, includes 150W adapter
Operating Temp	-10°C to 50°C (N97) -10°C to 45°C (N305)	-20°C to 60°C
Certifications	UL 61010-1/-2-201, CE, FCC A, UKCA, VCCI, RCM	UL 62368-1, CE, FCC A, UKCA
Dimensions (WxDxH)	225 x 130 x 41 mm	225 x 130 x 48 mm
Weight	1.2kg	2.0kg

intel ai

BCO-1000-ADLN SERIES

MORE

NEW

Model	BCO-1000-ADLN_2L	BCO-1000-ADLN-B_3L
Processor	Intel® Alder Lake-N N97, 4 cores, 12W	Intel® Alder Lake-N N97 (4C, 12W) or Intel® Atom® x7835RE (8C, 12W)
Memory	DDR5 4800/5600 MT/s SO-DIMM, Max. 32GB	
Graphics	Intel® UHD Graphics	
Display	1x DP 1.4a (4096 x 2304 @60Hz), 1x HDMI 1.4b (3840 x 2160 @30Hz), dual independent	
Storage	1x M.2 B-Key (Default 128GB SSD), 1x 2.5" SATA bay	1x M.2 B-Key (LTE/4G/5G/Storage), 1x 2.5" SATA bay
I/O Ports	2x COM, 2x USB 3.2 Gen2, 2x USB 3.2 Gen1, 2x USB 2.0, Line-in/out/Mic	2x COM, 2x USB 3.2 Gen1, 2x USB 2.0, Line-in/out/Mic
LAN	2x 2.5GbE (Intel® I225-V)	3x 2.5GbE (I225-V; one co-lay with I226-LM/TSN)
Expansion	1x M.2 E-Key (Wi-Fi/BT, CNVi)	1x M.2 B-Key + 1x M.2 E-Key
SIM Support	-	Dual SIM Sockets
GPIO	1x 8-bit Digital I/O	
Operating System	Windows 10/11, Linux Kernel (Ubuntu LTS)	
Power Input	9-36V DC, AT/ATX modes	12-36V DC, AT/ATX modes
Operating Temp	0°C to 50°C	
Dimensions (WxDxH)	192 x 140 x 68 mm	

BCO-3000-RPL

MORE

SMALL FORM FACTOR

BCO-6000-RPL

MORE

INDUSTRIAL COMPUTER

Model	BCO-3000-RPL	BCO-6000-RPL
Processor	12th/13th/14th Gen Intel® Core™ i9/i7/i5/i3 (35W TDP, LGA 1700)	
Chipset	Intel® Q670E	
Memory	2x DDR4-3200 SO-DIMM, up to 64GB	
Graphics	Intel® UHD Graphics	
Display	2x DP 1.4a, 1x HDMI 1.4b (triple independent)	
Validated GPU	-	1x PCIe x16 or 2x PCIe x8 (supports RTX PRO 2000, RTX PRO 4000 SFF)
Storage	1x M.2 M-Key (NVMe, default 128GB), supports B+M Key	
Expansion	1x M.2 B-Key (5G/4G/LTE, SIM), 1x M.2 E-Key (Wi-Fi/BT)	
I/O Ports	4x COM, 6x USB 3.2 Gen2, 2x USB 3.2 Gen1, 2x USB 2.0, Line-out/Mic	
LAN	3x 2.5GbE (Intel® I226)	
Digital I/O	8-in / 8-out isolated DIO	
Operating System	Windows 10/11, Linux Kernel (Ubuntu LTS)	
Power Input	9-36V DC, AT/ATX	
Operating Temp	0°C to 50°C (35W CPU)	
Dimensions (WxDxH)	192 x 240 x 69 mm	330 x 240 x 69 mm

RCO SERIES

RCO-1000 SERIES

RCO-3000 SERIES

RCO-6000 SERIES

SUPER-RUGGED INDUSTRIAL COMPUTERS

1000
Ultra Compact

- Intel Atom® Processors
- Up to 3x EDGEBoost I/O
- Lite AI Performance
- Up to 2x PoE and 2x LAN RJ45
- Wide Operating Temperature -40°C up to 70°C

3000
Small Form Factor

- Intel® Core Processors
- 1x EDGEBoost I/O
- Mid-AI Performance
- Up to 4x PoE RJ45/M12
- Wide Operating Temperature -25°C up to 70°C
- EN50155 (EMC) Certified

6000
High Performance

- Intel® Core Processors
- 2x EDGEBoost I/O
- High-AI Performance
- Up to 8x PoE RJ45/M12
- EDGEBoost Nodes Compatible for SSD, GPU and PCIe expansions
- Wide Operating Temperature -25°C up to 70°C

PERFORMANCE, EXPANDABILITY, AND DURABILITY AT THE RUGGED EDGE

The RCO Series is a line of super-rugged x86 industrial computers purpose-built to enable real-time performance in extreme deployments. By leveraging a fanless and cableless design approach with modular EDGEBoost technologies, these systems can provide seamless configurability to meet varying edge-native deployment requirements while maintaining utmost durability. Available in three series, the RCO-1000, RCO-3000, and RCO-6000 Series.

EDGEBoost I/O Support

EDGEBoost Nodes Support

Scalable NVMe, SATA, and RAID Card

Scalable Robust GPU Cards

RCO-1000-ASL SERIES MORE

Model	RCO-1000-ASL-10	RCO-1000-ASL-20	RCO-1000-ASL-20-OOB	RCO-1000-ASL-30
Processor	x7835RE (8 cores, up to 3.6GHz) Intel® Atom® x7433RE (8 cores, up to 3.4GHz)			
Memory	1x DDR5 SODIMM, Max. 32GB			
Out-of-Band Management	-		Support OOB Module (2x COM, 1x RJ45)	-
Display	1x DisplayPort (4096x2304 @60Hz), 1x HDMI 1.4b (3840x2160 @30Hz), dual display			
Storage	1x M.2 B-Key (Storage)	1x 2.5" SATA bay, 1x M.2 B-Key (4G/5G/AI/Storage)		
I/O Ports	2x COM (RS-232/422/485), 3x USB 3.2 Gen2, 1x USB 2.0, Audio			
LAN	2x 2.5GbE (Intel® I226, WoL & PXE)			
Expansion	1x M.2 E-Key (Wi-Fi/BT)			
EDGEBoost I/O	1x EBIO Expansion	2x EBIO Expansion	EBIO-2COM, EBIO-OOB-I	3x EBIO Expansion
Power Input	9–36V DC, AT/ATX modes, ignition sensing supported			
Operating Temp	-40°C to 70°C			
Dimensions (WxDxH)	150 x 105 x 56 mm	150 x 105 x 65 mm		150 x 105 x 83 mm

RCO-1000-EHL SERIES MORE

Model	RCO-1000-EHL-10	RCO-1000-EHL-20	RCO-1000-EHL-30	RCO-1000-EHL-30-2P
Processor	Intel® Atom® X6425E (Elkhart Lake), Quad-Core, 1.8GHz			
Memory	1x DDR4 SODIMM, Max. 32GB			
AI Acceleration	Supports 1x Hailo-8™ (26 TOPS)			
Display	2x DisplayPort 1.4 (4096 x 2160 @60Hz, dual display)			
Storage	1x 2.5" SATA bay, 1x mSATA			
I/O Ports	2x COM (RS-232/422/485), 3x USB 3.2 Gen2, 1x USB 2.0, Audio			
LAN	1x 2.5GbE + 1x 1GbE (Intel® I225/I210, WoL & PXE)			1x 2.5 GbE, 1x GbE, 2x PoE
Expansion	1x Full-size mini PCIe, 1x M.2 B-Key (5G/4G/AI Module), 2x SIM			
EDGEBoost I/O	1x EBIO Expansion	2x EBIO Expansion	3x EBIO Expansion	3x EBIO Expansion
Power Input	9-36V DC, AT/ATX modes, ignition sensing supported			
Operating Temp	-40°C to 70°C			-40°C to 50°C
Dimensions (WxDxH)	150 x 105 x 49 mm	150 x 105 x 65 mm	150 x 105 x 83 mm	

RCO-3000-RPL MORE

Model	RCO-3000-RPL
Processor	12th/13th/14th/Core 200S Gen Intel® Core™ i3 to i9 (45W/35W TDP, LGA 1700)
Chipset	Intel® Q670E
Memory	1x DDR5 SODIMM, Max. 48GB
Graphics	Intel® UHD Graphics
AI Accelerator Support	Supports up to 4x Hailo-8™ AI modules
Display	4x DP 1.4a (4 independent displays)
Storage	2x 2.5" SATA bays (1 internal, 1 hot-swap), RAID 0/1/5
Expansion	2x M.2 B-Key (NVMe/AI/4G/5G), 1x M.2 E-Key
EDGEBoost I/O	1x EDGEBoost I/O Expansion
I/O Ports	3x COM (external) + 2x COM (internal), 6x USB 3.2 Gen2
LAN	2x 2.5GbE (Intel® I226, TSN)
Digital I/O	8-in / 8-out isolated
Power Input	9–48V DC, AT/ATX, ignition power management
Operating Temp	-25°C to 70°C (45W/35W CPU)
Certifications	UL 61010-1/-2-201, CE, FCC A, UKCA, ICES-003, EMC Conformity with EN50155 & EN50121-3-2
Dimensions (WxDxH)	192 x 227 x 69.5 mm

RCO-6000-RPL SERIES MORE

Model	RCO-6000-RPL
Processor	12th/13th/14th/Core 200S Gen Intel® Core™ i3 to i9 (65W/45W/35W TDP, LGA 1700)
Chipset	Intel® R680E
Memory	2x DDR5 SODIMM, Max. 96GB
Graphics	Intel® UHD Graphics
AI Accelerator Support	Supports up to 3x Hailo-8™ AI modules
Display	2x DP 1.4a + 1x DVI-I (triple display)
Storage	2x 2.5" SATA bays (1 internal, 1 hot-swap), RAID 0/1
Expansion	1x M.2 B-Key (AI/NVMe/4G/5G), 1x M.2 E-Key, 1x Mini-PCIe
EDGEBoost I/O	2x EDGEBoost I/O Expansion
I/O Ports	2x COM (rear) + 4x COM (internal), 8x USB 3.2 Gen2 + 1x USB 3.2 Gen1 + 2x USB 2.0
LAN	2x 2.5GbE (Intel® I226, TSN)
Digital I/O	8-in / 8-out isolated
Power Input	9–48V DC, AT/ATX, ignition power management
Operating Temp	-25°C to 70°C (45W/35W CPU) -25°C to 60°C (65W CPU)
Certifications	UL 62368-1 Ed.3, CE, FCC A, UKCA, ICES-003
Dimensions (WxDxH)	240 x 261 x 79 mm

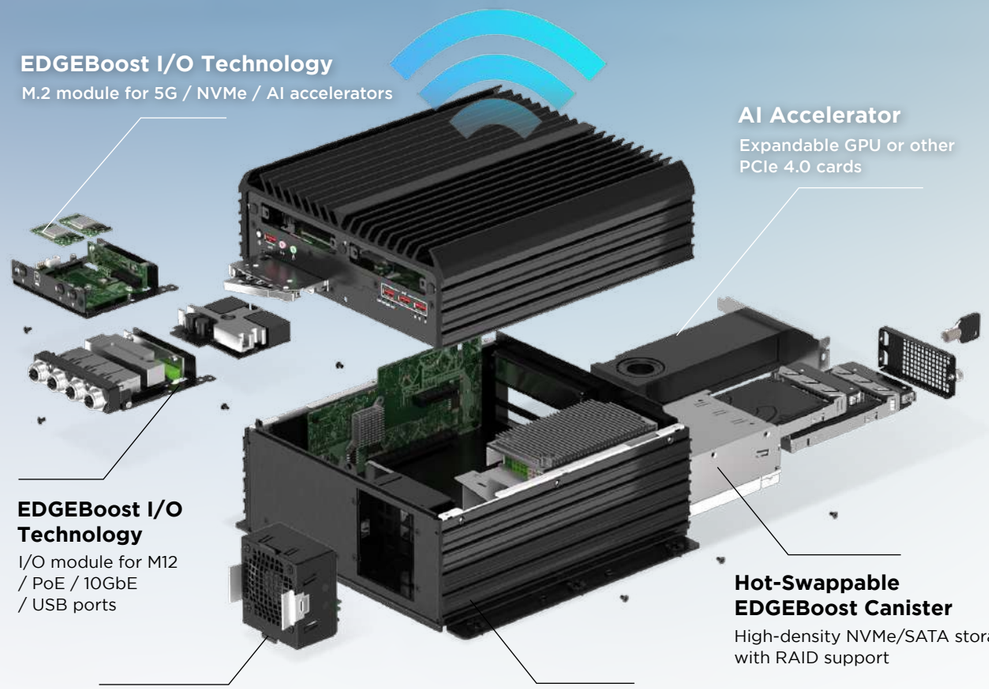
SMALL FORM FACTOR RUGGED COMPUTER & HIGH-PERFORMANCE INDUSTRIAL COMPUTER

RCO SERIES

RCO-6000-RPL SERIES EDGEBOOST TECHNOLOGIES MORE

Model	RCO-6000-RPL-2-2PWR	RCO-6000-RPL-2-4B7M	RCO-6000-RPL-4N-1E	RCO-6000-RPL-8NS
Top Nodes	RCO-6000-RPL			
EDGEBoost Node Type	GPU Expansion	Storage Expansion	GPU + Storage Expansion	Storage Expansion
Primary Function	Add-on PCIe acceleration (GPU/AI/ Networking)	High-density hot-swap SATA storage	High-speed NVMe storage + AI compute	Maximum NVMe density for AI data pipelines
PCIe Expansion	1x PCIe x16 Gen4 + 1x PCIe x1 Gen3 or 1x PCIe x16 (8-lane) Gen4 + 1x PCIe x8 Gen4	-	1x PCIe x16 (GPU or RAID), + 1x PCIe x8 (open-ended)	-
Card Dimension	235 (L) x 112 (H) mm 2 Slots	-	235 (L) x 112 (H) mm 2 Slots	-
Validated GPU	NVIDIA RTX PRO 2000, PRO 4000 SFF	-	NVIDIA RTX PRO 2000, PRO 4000 SFF	-
Drive Bays	-	4x 7mm SATA SSD (hot-swap)	4x 7mm U.2 NVMe SSD (hot-swap)	8x 7mm U.2 NVMe SSD (hot-swap)
RAID	RAID 0/1 (via base system)	RAID 0/1/5/10	RAID 0/1/5 + optional hardware RAID 6 controller	RAID 0/1/5/10 (Software RAID only)
Additional Features	Hot-Swap Smart Fan	Hot-Swap Smart Fan, Protective Storage Bracket	Hot-Swap Smart Fan, Lockable Storage Bracket	
Power Budget	300W	-	300W	
Power Requirements	12–48V for GPU/Card expansion (4-pin terminal block)	Standard 9–48V	12–48V for NVMe/GPU Node	12–48V for NVMe Node
Operating Temp	-25°C to 60°C	-25°C to 70°C	-25°C to 45°C (with GPU)	-25°C to 60°C
Dimensions (WxDxH)	240 x 261 x 126.8 mm		240 x 261 x 166.9 mm	

EDGEBoost TECHNOLOGIES



Introducing our EDGEBoost Technologies – taking modular industrial solutions to new heights. The three versatile EDGEBoost Series are precisely engineered to maximize flexibility, performance, and resilience across our solution lineup. With EDGEBoost Technologies, our industrial computers become easily customizable and upgradable to meet diverse industrial demands.

- Modular, Scalable Design
- Industrial Ruggedness
- Certification-Ready
- Cost Effective
- No MOQ

EDGEBOOST I/O FOR RCO-1000 SERIES

MORE

EBIO is the perfect solution for those looking to optimize their edge infrastructure. These flexible add-on modules are a modular and scalable solution that is designed to tackle the limitations that may occur at the rugged edge. EDGEBoost I/Os are built to integrate seamlessly with our industrial computers to provide reliable expandability for mission critical I/O.

EBIO Modules for Industrial Mini Computers

EDGEBoost I/O Expansion

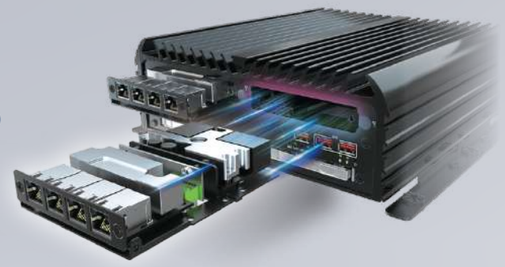
RCO-1000-10 Series	**RCO-1000-20** Series	**RCO-1000-30** Series
up to 1x EDGEBoost I/O support	up to 2x EDGEBoost I/O support	up to 3x EDGEBoost I/O support

Digital & Analog Digital and Analog EBIO Modules

EBIO-DP-DIO	**EBIO-HDMI-DIO**	**EBIO-4USB**	**EBIO-2COM**
up to 1x	up to 1x	up to 1x	up to 2x
• 1x DP (4K UHD) • 1x DIO (4 in / 4 out, Isolated)	• 1x HDMI Port (Full-HD) • 1x DIO (4 in / 4 out, Isolated)	• 4x USB 2.0, Type A Ports (with USB hub)	• 2x COM Ports (RS-232/422/485)

EDGEBOOST I/O FOR 3000 & 6000 SERIES

MORE



USB Interface Modules

EBIO-4U3	EBIO-4U3-J	EBIO-4U3L-J
• 4x USB 3.0, Type-A Ports		• 4x USB 3.2 Gen 1 (5 Gbps, 900mA) • Type-A Locking Ports

Connectivity & Network Modules

EBIO-4ETH	EBIO-4ETH-J	EBIO-4ETH-M12	EBIO-4ETH-M12-J
• 4x 1GbE LAN, RJ45 Port • Intel® Ethernet Controller I350 • PCIe x1 Gold Fingers Interface (PCIe 3.0 x4 Performance) • Support Power over Ethernet by an optional PoE module		• 4x 1GbE LAN, M12 Port X-code 8-Pin • Intel® Ethernet Controller I350 • PCIe x1 Gold Fingers Interface (PCIe 3.0 x4 Performance) • Support Power over Ethernet by an optional PoE module	

EBIO-4ETH-POE	EBIO-4ETH-POE-J	EBIO-4ETH-POE-M12	EBIO-4ETH-POE-M12-J
• Up to 25.5 watt per port		• Complies with IEEE 802.3at	

EBIO-D10G	EBIO-D10G-J	EBIO-OOB	EBIO-OOB-J	EBIO-OOB-I
• 2x 10 GbE LAN, RJ45 Ports • Intel® Ethernet Controller X710-AT2 • PCIe x1 Gold Fingers Interface (PCIe 3.0 x4 Performance)		• RJ45 Hardware-Based Features: Out-of-Band and In-Band • Power Control & Remote Management • OOB Cloud Serial Console Optional: • Backup & Recovery • Temper Detection • Thermo Guard		

Cellular, Edge AI, and Storage Modules

EBIO-M2BK	EBIO-2M2BK	EBIO-M2MK	EBIO-M2MK-J
• 1x M.2 B-Key 3042/3052 • Supports 4G/5G module • 2x SIM slot, 1x SIM Switch • 1x Dedicated Heat block • Occupied 2x Universal Slots	• 2x M.2 B-Key 2242/3042/3052 • Supports 4G/5G/AI/NVMe modules • 1x Mini SIM Slot (on-board) • 1x Dedicated Heat block • 3x Antenna Holes	• 1x M.2 M-Key 2242/2260 • Supports AI/NVMe module • 1x Dedicated Heat block	

EDGEBOOST I/O Compatible Industrial Computers

EBIO is the perfect solution for those looking to optimize their edge infrastructure. These flexible add-on modules are a modular and scalable solution that is designed to tackle the limitations that may occur at the rugged edge. EDGEBoost I/Os are built to integrate seamlessly with our industrial computers to provide reliable expandability for mission critical I/O.

Edge AI Industrial Computers

Super-Rugged SFF Computers

Super-Rugged Edge AI Computers

Railway & In-Vehicle Computers

EBIO Modules	RCO-3000 Series	RCO-6000 Series	ACO-6000 Series
EBIO-4U3	●	●	●
EBIO-4ETH	●	●	●
EBIO-4ETH-POE	●	●	●
EBIO-4ETH-M12	●	●	●
EBIO-4ETH-POE-M12	●	●	●
EBIO-D10G	●	●	●
EBIO-M2BK		●	●
EBIO-2M2BK	●	●	●
EBIO-M2MK	●	●	●
EBIO-OOB	●		●
	EBIO-OOB-I Integrated remote management module for JCO-1000-ORN-A, JCO-3000-ORN-B, DCO-1000-ASL, RCO-1000-ASL-20-OOB, LLM-2U-AM5, LLM-3U-AM5, and PC600-MTL Series		

CE FC EN50155 EN50121-3-2 E-Mark Certification UL CERTIFIED E357184

Jetson AI Edge Industrial Computers

NVIDIA

EBIO Modules	JCO-6000 Series
EBIO-4U3-J	●
EBIO-4U3L-J	●
EBIO-4ETH-J	●
EBIO-4ETH-POE-J	●
EBIO-4ETH-M12-J	●
EBIO-4ETH-POE-M12-J	●
EBIO-D10G-J	●
EBIO-OOB-J	●
EBIO-M2MK-J	●

3 TYPES
of High-Speed Camera Support

8x GMSL2

4x PoE
10x LAN

10x USB Vision

EDGEBoost Nodes

EDGE AI PERFORMANCE ACCELERATORS MODULES

EDGEBoost Nodes are modular add-on nodes designed for our AI Edge Inference Computer or also known as the RCO-6000 Series. These add-on nodes provide an easy and cost-effective upgrade for the rugged, fanless computer. They elevate computer performance through additional performance accelerators. The EDGEBoost Nodes deliver powerful real-time inferencing capabilities and high-speed data storage performance for intensive industrial-grade Edge AI applications.

Customize Your Performance Accelerators

GPU Card PCIe x16

Multiple PCIe
Expansion Slots

Up to 8x NVMe

NVMe/SATA
Hotswap Storages

RAID 0, 1, 5, 6, 10

Software &
Hardware RAID

20G
Shock

3 Grms
Vibration

GPU Locking Brackets

Tested & Validated GPU List

Model Name	Memory	CUDA Cores	AI TOPS	TDP
NVIDIA RTX PRO 2000 Blackwell	16GB GDDR7 ECC	4,352	545	70W
NVIDIA RTX PRO 4000 Blackwell SFF	24GB GDDR7 ECC	8,960	770	70W

* The EDGEBoost Nodes supports GPU cards with dimension of 235 mm in length, 112 mm in width, and up to 3-slot high.

** The second power supply delivers stable power up to 280W for the GPU card and the NVMe drives with a wide voltage of 12-48VDC support.

EDGEBoost Nodes

MORE

Configuration Guide

The RCO-6000 Series is a standalone, fanless industrial computer that can be enhanced with EDGEBoost Nodes for additional performance upgrades. This two-piece modular design allows the EBND add-on nodes to seamlessly attach to the lower portion of the RCO-6000, delivering advanced performance accelerators optimized for AI edge computing.

Configure Your Fanless Computer

Top - Compatible RCO-6000 Series			
RCO-6000-RPL		RCO-6000-CML	
	• Intel® Raptor/Bartlett Lake CPU 1x Hotswap SATA SSD (7mm) 1x Internal SATA SSD (9mm) 1x M.2 B Key, 1x M.2 E Key, 1x mPCIe 2x EDGEBoost I/O Slots		• Intel® 10th Gen CML CPU 2x Hotswap SATA SSD (7mm) 1x Internal SATA SSD (9mm) 1x M.2 E Key, 2x mPCIe 2x EDGEBoost I/O Slots

Configure Your EDGEBoost Nodes

	Bottom - Modular "EDGEboost Nodes" Configurations			
GPU / Other PCIe Cards	PCI or PCIe Expansion Series		GPU Series	
		• EBND-2-EXP-G4 (RCO-6000-RPL) 1x PCIe x16 (Gen 4), 1x PCIe x1 (Gen 3) or 1x PCIe x16 (Gen 4), 1x PCIe x8 (Gen 4) • EBND-2-EXP (RCO-6000-CML) PCIe x16, PCI Expansions		• EBND-2-PWR-G4 (RCO-6000-RPL) 1x PCIe x16 (Gen 4), 1x PCIe x1 (Gen 3) or 2x PCIe x8 (Gen 4) 12-48VDC Power Supply (280W) • EBND-2-PWR (RCO-6000-CML) PCIe x16, PCI Expansions 12-48VDC Power Supply (280W)
Storages	SATA Storage Series			
		• EBND-2-2SATA 2x Hot-Swap 2.5" SATA Drives (15mm) RAID 0, 1, 5, 10		• EBND-2-4SATA 4x Hot-Swap 2.5" SATA Drives (7mm) RAID 0, 1, 5, 10
	NVMe Series			
		• EBND-2-2NVME-G4 (RCO-6000-RPL only) 2x Hot-Swap 2.5" NVMe SSD Bay (15mm) PCIe Gen 4 Expansion		• EBND-8NVME-S 8x Hot-Swap 2.5" U.2 NVMe Drives (7mm) RAID 0, 1, 5, 10
		• EBND-4NVME-S 4x Hot-Swap 2.5" U.2 NVMe Drives (15mm) RAID 0, 1, 5, 10		• EBND-4NVME-H 4x Hot-Swap 2.5" U.2 NVME Drives (15mm) Hardware RAID 0, 1, 5, 6, 10
Storages + GPU	NVMe and GPU Series			
		• EBND-4NVME-GPU 1x GPU Expansion 4x Hot-Swap 2.5" U.2 NVMe Drives (7mm)		• EBND-2NVME-GPU 1x GPU Expansion 2x Hot-Swap 2.5" U.2 NVMe Drives (15mm)
		• EBND-4N-1E 1x PCIe x16, 1x PCIe x1 Slots Hardware RAID 0, 1, 5, 10 4x Hot-Swap 2.5" U.2 NVMe Drives (7mm)		

ECO SERIES

SUPERCAPACITOR UPS BACKUP SYSTEM

POWER REDUNDANCY AND SAFETY AT THE RUGGED EDGE

The ECO-1000 Series EDGEBoost EnergyPack is an industrial-grade supercapacitor that provides reliable power backup, safe shutdown, and power regulation for industrial computers and HMI displays in mission-critical and remote edge deployments, ensuring uninterrupted performance during power fluctuations in unstable environments.

10-Year Lifespan

Wide Temperature, Shock, and Vibration Resistant

UL Safety & CB Scheme IEC 62368-1: 2018

EN50155 (EMC) & EN50121-3-2

ECO-1000 EDGEBOOST ENERGYPACK

MORE

- Up to 200W Max. Power Output
- 1x COM, 1x USB for GUI Remote Management and Monitoring
- Shock and Vibration Resistance (20G, 5Grms)
- 3 Smart Modes with Remote On/Off, Ignition Control, Delay Time
- 12V/24V Compatibility: Industrial PCs, Panel PCs, Displays
- Optional LCM Display Module and Button Control

EMC Conformity EN50155 & EN50121-3-2

Model	ECO-1000
Capacity	ECO-1000-8S: 8x 370 Farads Supercapacitors ECO-1000-16S: 16x 370 Farads Supercapacitors
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) Available Discharge Mode: 12 or 24V
Output Power	ECO-1000-8S: Max.100W output ECO-1000-16S: Max.200W output
Output Connector	3-pin Terminal Block (V+, GND)
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
Charging Mode	Quick and Normal Charging
Power Ignition	Power Ignition Management
Operating Temp	-20°C to 55°C
Shock & Vibration	20 G; 5 Grms
Certification	CE, FCC Class A, UL 62368-1 Ed. 3 EMC Conformity with EN50155
Dimensions (WxDxH)	100 x 192 x 192 mm
Weight	1.8 kg ~ 2.6 kg
Mounting Options	Wall Mounting, DIN Rail Mounting (Optional)

JCO SERIES

JETSON AI EDGE INDUSTRIAL COMPUTERS

1000 Ultra Compact

- Jetson Orin Nano Super 4GB/8GB with 10W-25W Power Options
- Jetson Orin NX Super 8GB/16GB with 10W-40W Power Options
- 20-157 TOPS of AI Performance
- High-Speed I/O and Wireless Connectivity

3000 Small Form Factor

- Jetson Orin Nano Super 4GB/8GB with 10W-25W Power Options
- Jetson Orin NX 8GB/16GB with 10W-25W Power Options
- Up to 100 TOPS of AI Performance
- Up to 3X the Performance of Jetson Xavier NX
- Optional 2x LAN or 4x PoE RJ45

6000 High Performance

- Jetson AGX Orin 32GB/64GB with 15W-60W Power Options
- Up to 275 TOPS of AI Performance
- Up to 8X the Performance of Jetson AGX Xavier
- 2x EDGEBoost I/O Expansions

RUGGED EDGE AI POWERED BY NVIDIA JETSON MODULES

The JCO Series industrial computer, powered by the advanced NVIDIA Jetson platform, is a standout in AI and industrial computing. This series offers exceptional AI computing capabilities, making it perfect for sophisticated robotics, autonomous machinery, and high-end embedded AI tasks. Designed to withstand harsh industrial conditions, the JCO Series ensures consistent performance even in extreme environments.

- EDGEBoost I/O Support
- Rich I/O Configuration
- World-Class Certification
- Ruggedized Fanless Solution

JCO-1000-ORN SERIES MORE


Model	JCO-1000-ORN-A	JCO-1000-ORN-B	JCO-1000-ORN-C
Processor	NVIDIA® Jetson Orin™ NX Super/Nano Super		
TOPS and Memory	NX 16 GB: 1024-core NVIDIA Ampere architecture GPU (40W/157 TOPS) NX 8 GB: 1024-core NVIDIA Ampere architecture GPU (40W/117 TOPS) Nano 8 GB: 1024-core NVIDIA Ampere architecture GPU (25W/67 TOPS) Nano 4 GB: 512-core NVIDIA Ampere architecture GPU (25W/34 TOPS)		
Display Output	1x HDMI (Nano: 4K30Hz, NX: 4K60Hz)		
Storage	1x M.2 M-Key NVMe SSD (2242/2280, 128GB default) + microSD		
Expansion	1x M.2 B-Key (4G/5G), 1x M.2 E-Key (Wi-Fi/BT), 2x SIM		
LAN	1x GbE	1x GbE (RGMII), 1x 2.5 GbE (Intel® i226 IT)	1x GbE M12 (RGMII), 1x 2.5 GbE M12 (Intel® i226 IT)
Optional Feature	Out-of-Band Management	4x GMSL2 via Quad Mini Fakra Module	
I/O Ports	4x USB 3.2 Gen2, 1x USB-C (OS flash), 1x Micro-USB (console), 2x COM	1x USB 3.2 Gen2, 1x USB 2.0, 1x USB-C (OS flash), 1x Micro-USB (console), 1x COM	
DIO / CAN	4x DI + 4x DO (isolated), 1x CAN 2.0B		
Operating System	Linux Ubuntu 22.04 with Jetpack 6.2		
Power Input	9-36V DC, AT/ATX mode, ignition supported		
Operating Temp	-20°C to 55°C (15W/25W) -20°C to 35°C (40W)		
Certifications	UL 62368-1 Ed.3, CE, FCC B, UKCA, ICES-003	UL 62368-1 Ed.3, E-Mark, EN50155 EMC, CE, FCC B, UKCA, ICES-003	
Dimensions (WxDxH)	150 x 105 x 65 mm		
Weight	1.1 kg		

JCO-3000-ORN SERIES

MORE

Model	JCO-3000-ORN-B
Processor	NVIDIA® Jetson Orin™ NX / Nano Super
TOPS and Memory	NX 16 GB: 1024-core NVIDIA Ampere architecture GPU (25W/100 TOPS) NX 8 GB: 1024-core NVIDIA Ampere architecture GPU (25W/70 TOPS) Nano 8 GB: 1024-core NVIDIA Ampere architecture GPU (25W/67 TOPS) Nano 4 GB: 512-core NVIDIA Ampere architecture GPU (25W/34 TOPS)
Display Output	1x HDMI (Nano: 4K30Hz, NX: 4K60Hz)
Storage	1x M.2 M-Key NVMe SSD (2242/2280, default 128GB) + microSD
Expansion	1x M.2 B-Key (4G/5G), 1x M.2 E-Key (Wi-Fi/BT), 1x Dual SIM
LAN	4x GbE RJ45 (RGMII, Intel® I226), optional 4x PoE+ (120W total, Max. 25W/port)
Optional Feature	Out-of-Band Management (1x RJ45)
I/O Ports	4x USB 3.2 Gen2, 1x USB-C (OS flash), 1x Micro-USB (console), 2x COM (RS-232/422/485), 1x CAN 2.0B
DIO / CAN	8x DI + 8x DO (isolated), 1x CAN 2.0B
Operating System	Linux Ubuntu 22.04 with JetPack 6.2
Power Input	9–36V DC, AT/ATX mode, ignition supported
Operating Temp	-20°C to 60°C (15W mode) -20°C to 55°C (25W mode)
Certifications	UL 62368-1 Ed.3, E-Mark, EN50155 EMC, CE, FCC B, UKCA, ICES-003
Dimensions (WxDxH)	192 x 140 x 58 mm
Weight	2.8 ~ 3.6 kg

JCO-6000-ORN SERIES

MORE

Model	JCO-6000-ORN-A
Processor	NVIDIA® Jetson AGX Orin™ — 12-core (64GB, 60W, 275 TOPS) or 8-core (32GB, 40W, 200 TOPS)
TOPS and Memory	AGX 64 GB: 2048-core NVIDIA Ampere GPU, 12-core ARM Arm® Cortex® (275 TOPS) AGX 32 GB: 1792-core NVIDIA Ampere GPU, 8-core ARM Arm® Cortex® (200 TOPS)
Display Output	1x HDMI (3840 x 2160 @ 60Hz)
Storage	1x eMMC 5.1 (64GB), 1x M.2 M-Key NVMe SSD (2280, PCIe x4, 128GB default) + microSD
Expansion	1x M.2 B-Key (4G/5G), 1x M.2 E-Key (Wi-Fi/BT), 2x SIM
EDGEBoost I/O	2x EDGEBoost I/O Brackets supporting: LAN, PoE, M12, 10 GbE, USB 3.0 Locking and NVMe M.2 SSD
LAN	1x 1GbE (Marvell 88E1512), 1x 10GbE (Marvell AQC113)
Camera Support	Optional GMSL2 (2x Quad Mini-Fakra) supporting 8x Cameras @ 1280x720 @ 30FPS
I/O Ports	1x USB 3.2 Gen2, 1x USB 2.0 (OS Flash), 1x USB-C (Console), 2x COM (RS-232/422/485), 2x CAN 2.0B
DIO / CAN	8x DI + 8x DO (isolated), 2x CAN 2.0B
Operating System	Linux Ubuntu 22.04 with JetPack 6.2
Power Input	9-48V DC, AT/ATX mode, adjustable ignition sensing
Operating Temp	-20°C to 55°C (AGX 64GB MaxN, non-throttle) -20°C to 50°C (AGX 64GB with PoE/10G/USB modules, full CPU+GPU load)
Certifications	UL 62368-1 Ed.3, E-Mark, EN50155 EMC, CE, FCC B, UKCA, ICES-003
Dimensions (WxDxH)	270 x 190 x 95 mm
Weight	6 ~ 7 kg

ACO SERIES

RAILWAY & IN-VEHICLE
INDUSTRIAL COMPUTERS

DELIVER INTELLIGENCE AT THE MOBILE EDGE

The ACO-6000 Series offers robust, fanless in-vehicle computers, rigorously tested for mission-critical automotive applications. Essential for intelligent transportation, these systems adeptly handle edge data processing for machine learning and intelligence. With the need for high-performance computing in vehicles, they efficiently process data from various sensors and IoT devices, ensuring swift, low-latency communication.

Scalable
16x PoE

EN50155 / EN45545
and E-Mark

Wide Power Range
9~48V and 48~110V

MIL-STD-810H
Compliant
Method 514 & 517

ACO-6000-CML MORE

Model	ACO-6000-CML
Processor	10th Gen Intel® Core™ i3 to i9 (65W/35W TDP, LGA 1200), Intel® XEON-W Processors
Chipset	Intel® W480E
Memory	2x DDR4 SODIMM, Max. 64GB
Display Output	2x DP + 1x DVI-I (Triple Display)
Storage	1x Internal + 2x Hot-swap 2.5" SATA (RAID 0/1/5)
Expansion	1x M.2 E-Key, 2x Full-size Mini-PCIe, 2x EDGEBoost I/O slots
LAN Options	2x GbE
Power Input	9–48V DC (optional 48–110V)
Operating Temperature	-25°C to 70°C (35W CPU)
Shock & Vibration	50G Shock (IEC60068-2-64:2008) & 5Grms Vibration (IEC60068-2-27:2008)
Certifications	EN50155 / EN50121-3-2 Railway EMC, E-Mark, CE, FCC A, UKCA, ICES-003
Dimensions (WxDxH)	240 x 261 x 79.2 mm

ACO-6000-CML-1

MORE

Model	ACO-6000-CML-1
Processor	10th Gen Intel® Core™ i3 to i9 (65W/35W TDP, LGA 1200), Intel® XEON-W Processors
Chipset	Intel® W480E
Memory	2x DDR4 SODIMM, Max. 64GB
Display Output	2x DP + 1x DVI-I (Triple Display)
Storage	1x Internal + 2x Hot-swap 2.5" SATA (RAID 0/1/5)
Expansion	1x M.2 E-Key, 2x Full-size Mini-PCIe, 4x EDGEBoost I/O slots, 1x PCIe x16
LAN Options	2x GbE + Optional 16x GbE (RJ45/M12; LAN/PoE)
Power Input	9–48V DC (optional 48–110V)
Operating Temperature	-25°C to 70°C (35W CPU)
Shock & Vibration	50G Shock (IEC60068-2-64:2008) & 5Grms Vibration (IEC60068-2-27:2008)
Certifications	EN50155 / EN50121-3-2 Railway EMC, E-Mark, CE, FCC A, UKCA, ICES-003
Dimensions (WxDxH)	240 x 261 x 127.3 mm

ACO-6000-RPL

MORE

Model	ACO-6000-RPL
Processor	12th/13th/14th/Core 200S Gen Intel® Core™ i3 to i9 (65W/35W TDP, LGA 1700)
Chipset	Intel® W680E
Memory	2x DDR5 SODIMM, Max. 64GB (ECC / Non-ECC)
Display Output	Triple Display: 2x DisplayPort + 1x DVI-I
Storage	3x 2.5" SATA bays (1 internal + 2 hot-swap), RAID 0/1
Expansion	1x M.2 B-Key (AI/Storage/4G/5G), 1x M.2 E-Key (Wi-Fi/BT), 1x Full-size Mini-PCIe, 2x EDGEBoost I/O Slot
LAN Options	2x 2.5GbE LAN, 4x USB 3.2 Gen2, 2x USB 2.0, 2x COM, 8x DI + 8x DO (isolated), 1x CAN 2.0B
Power Input	9~48V DC input, AT/ATX mode, Ignition Power Management
Operating Temperature	-25°C to 70°C (35W CPU) -25°C to 60°C (65W CPU)
Certifications	EN50155 / EN50121-3-2 Railway EMC, UL 62368-1 Ed.3, CE, FCC A, UKCA, ICES-003
Dimensions (WxDxH)	240 x 261 x 79.1 mm

DCO SERIES

DIN RAIL FANLESS INDUSTRIAL COMPUTERS

COMPACT & RICH I/O CONFIGURATION FOR DIN RAIL APPLICATIONS

The DCO-1000-ASL is a compact, fanless DIN-rail industrial computer designed for demanding IoT environments. Built to operate reliably in extreme temperatures and resist shock and vibration, it's ideal for space-constrained industrial applications requiring advanced remote management and top-tier durability.

Compact Form Factor

Rich I/O Configuration

Industrial IoT Solutions

Ruggedized Fanless Solution

DCO-1000-ASL MORE

Designed for flexibility, the DCO-1000-ASL features a comprehensive I/O suite and multiple M.2 expansion slots, enhancing connectivity and customization for industrial applications. Perfect for demanding environments, it provides advanced remote management and robust certifications, ensuring reliable performance in automation and smart city infrastructure.

intel ai

Model	DCO-1000-ASL
Processor	Intel® Atom® x7433RE (Quad-Core, 3.4GHz Turbo, 9W TDP) Intel® Atom® x7835RE (8-Core, 3.6GHz Turbo, 12W TDP)
Memory	1x DDR5 4800/5600 MT/s SO-DIMM, Max. 32GB (In-Band ECC supported)
Display Output	2x DisplayPort 1.4 (4096x2160 @ 60Hz), Dual Independent Display
Storage	1x M.2 B-Key (PCIe x2 NVMe, 2242)
Expansion	1x M.2 B-Key (4G/5G module), 1x M.2 E-Key (Wi-Fi/BT), Dual SIM
I/O Ports	4x 2.5GbE LAN (Intel® I226), 2x COM (RS-232/422/485), 2x USB 3.2 Gen2, 2x USB 2.0, 4x DI + 4x DO (isolated)
Optional Feature	Out-of-Band Management (RJ45), CAN Bus x2 (internal header)
Power Input	9–36V DC, 3-pin terminal block, AT/ATX mode, OVP/OCP/Reverse Protection
Operating Temp	-40°C to 65°C
Operating System	Windows 10 / Windows 11, Linux Kernel 6.2
Certification	UL 61010-1, UL 61010-2-201, CE, FCC Class A, UKCA, ICES-003, RoHS3, REACH
Shock & Vibration	Shock: 20G, 11ms; Vibration: 5 Grms (5–500Hz) DIN-Rail / Wall-Mount
Dimensions (WxDxH)	150 x 105 x 50 mm
Weight	0.85 kg

WCO SERIES

IP66/IP68/IP69K
WATERPROOF INDUSTRIAL COMPUTERS

RUGGED AI COMPUTING FOR WATERPROOF EDGE DEPLOYMENTS

The WCO Series is a rugged IP66-rated waterproof industrial computer family powered by Intel® and NVIDIA® Jetson platforms. Combining fanless operation, advanced AI acceleration, GMSL2 camera connectivity, PoE+, and high-speed networking, it enables reliable deployment of machine vision, robotics, autonomous systems, and Physical AI applications in harsh environments.

IP66/IP68/IP69K Rating

PoE+ GMSL2 Holoscan

AI Vision & Sensor Fusion Ready

Scalable M12 Ports

High-Quality Compact Construction

WCO-3000-ORN

MORE

Preliminary

Model	WCO-3000-ORN-A
Processor	NVIDIA® Jetson Orin™ NX Super/Nano Super
Storage	M.2 M-Key NVMe SSD (128GB default) and 1x MicroSD 3.0 slot.
Expansion	1x M.2 E-Key (Wi-Fi), 1x M.2 B-Key (4G/5G), and 1x M.2 B-Key (PCIe x1 + USB2.0, 2242/2280).
LAN	3x 2.5GbE, 1x GbE (M12 X-coded, waterproof rugged connectors).
GMSL Camera	4x GMSL2 Fakra-Z camera ports (optional)
DIO / CAN / Audio	M12 A-Coded: 2x COM RS-232/422/485, 4x DI / 4x DO (Isolated), CAN 2.0B, Mic-in + Line-out
PoE	Optional 4x 15W PoE; Support IEEE 802.3af (4 ports) and 802.3at (2 ports).
Operating System	Ubuntu 22.04 with NVIDIA JetPack 6.2.
Power Input	9–48V DC via M12 K-code connector, AT/ATX mode, ignition sensing, OVP/OCP/Reverse Protection.
Operating Temperature	-20°C to 50°C (40W), -20°C to 60°C (25W), -20°C to 65°C (15W)
Certifications & Protection	IP66 Waterproof; CE, FCC Class B, ICES-003, UKCA; Railway EMC: EN50155; E-Mark (E24); UL 62368-1 Ed.3

WCO-6000-THR

MORE

Preliminary

Model	WCO-6000-THR-A
Processor	NVIDIA® Jetson AGX Thor™ T4000/T5000
Storage	2x M-Key (2280, PCIex4, NVMe)
Expansion	1x M.2 B-Key (2242), 1x M.2 B-Key (3042, 4G/5G), 1x M.2 E-Key (2230, Wi-Fi/BT)
LAN	2x 2.5GbE (Intel® i226), 4x 10GbE (Marvell AQC113, Suppport Holoscan)
GMSL Camera	8x GMSL2 Fakra-Z camera ports (optional)
DIO / CAN / Audio	M12 A-Coded: 2x COM RS-232/422/485, 7x DI / 7x DO (Isolated), 4x CAN FD, Mic-in + Line-out
PoE	Optional 4x 25W PoE
Operating System	Ubuntu 24.04 with NVIDIA JetPack 7.0
Power Input	24–48V DC via M12 K-code connector, AT/ATX mode, ignition sensing, OVP/OCP/Reverse Protection.
Operating Temperature	77W TDP Mode: -20°C to 60°C (With PoE 120W) 120W TDP Mode: -20°C to 40°C (With PoE 120W)
Certifications & Protection	IP66 Waterproof; CE, FCC Class B, ICES-003, UKCA; Railway EMC: EN50155; E-Mark (E24); UL 62368-1 Ed.3

WCO-3000-EHL

MORE

Model	WCO-3000-EHL
Processor	Intel® Atom® x6425E (Quad-Core, 2.0 GHz, 12W TDP)
Memory	1x DDR4 SODIMM, Max. 32GB
Expansion	1x M.2 B-Key (3042/3052, PCIe x1 + USB 3.2), 1x Mini PCIe, 2x Internal SIM
Waterproof I/O	1x DP/HDMI, 1x 1GbE + 1x 2.5GbE, 1x RS-232/422/485, 2x USB 3.2 Gen2, 2x CAN Bus, Audio
Optional Features	HDMI, 2x PoE, AI Hailo/5G, Ignition Power Control
Power Input	9–36V DC (M12 S-Code), optional 48–110V DC; AT/ATX mode; OVP/OCP/Reverse Protection
Operating Temperature	-40°C to 60°C (per IEC60068-2-1/2/3/14 environmental tests)
IP Rating	IP68 / IP69K waterproof & dustproof (sealed M12 I/O, fully enclosed chassis)
Certifications	CE, FCC Class A, ICES-003, UKCA, IEC60068-2-27 shock, IEC60068-2-64 vibration, MIL-STD-810H compliant
Dimensions (WxDxH)	231 x 292 x 57 mm

IP68: A rating standard for dust and water resistance
- 6: Dust-tight, meaning no dust ingress. Full protection against dust.
- 8: Withstand continuous immersion in water (typically up to 1 meter or more)

IP69K: Specifically tested for high-pressure, high-temperature water jets.
- 6: Dust-tight, providing complete protection against dust ingress. (Same as IP68)
- 9K: Withstand high-temperature water jets (water temperatures up to 80°C) & High-pressure water jets (pressure up to 100 bar (1450 psi))

VCO SERIES

X86 RUGGED EDGE AI WORKSTATIONS

PCIE CARD EXPANSION FOR INTELLIGENT COMPUTER VISION

The VCO-6000 Series is engineered for seamless integration of dual FHFL GPU cards through PCIe Gen 4 and industry-leading external storage expansion drives, delivering optimized processing and data aggregation. Deploy machine vision and AI inference applications with utmost reliability and performance to the rugged edge.

Dual GPU Support (FHFL)

PCIe Gen 4 Performance

Scalable NVMe & SATA Storage

Shock & Vibration Resistance

VCO-6000-RPL SERIES

MORE

intel ai

Model	VCO-6000-RPL-3-2PWR	VCO-6000-RPL-4-2PWR
Processor	12th/13th/14th/Core 200S Gen Intel® Core™ i3 to i9 (65W/45W/35W TDP, LGA1700)	
Chipset	Intel® R680E	
Memory	2x DDR5 SODIMM, Max. 96GB (ECC / Non-ECC)	
Display Output	2x DP 1.4a + 1x DVI-I (Triple Display)	
Storage	1x Internal 2.5" SATA + 1x Removable 2.5" SATA (RAID 0/1) Optional 2x/4x Hot-Swap 2.5" SATA/NVMe (RAID 0/1/5/10)	
Expansion	1x M.2 B-Key (NVMe / AI / 4G/5G), 1x M.2 E-Key, 1x Mini-PCIe, Dual SIM	
I/O Ports	2x 2.5GbE LAN (Intel® I226, TSN), 4x USB 3.2 Gen2, 2x USB 3.2 Gen1 (internal), 6x COM (4 internal), 8x DI + 8x DO, Universal I/O bracket	
PCIe Expansion	1x PCIe x16 (Gen4) 2x PCIe x4 (1-Lane, Gen2)	2x PCIe x16 Slot (8-lane, Gen 4) 1x PCIe x4 (1-lane, Gen 3)
Card Dimension	310 (L) x 112 (H) mm, 3-Slot	310 (L) x 112 (H) mm, 4-Slot
GPU Power	600W power budget via dedicated 48V GPU power rail	
Validate GPU	NVIDIA RTX PRO 2000, PRO 4000 SFF, PRO 4000, PRO 4500, PRO 5000, PRO 6000 Max-Q Blackwell	
Power Input	9–48V DC + 48V GPU power rail, AT/ATX, Ignition Control, OVP/OCP/Reverse Protection	
Operating Temperature	-25°C to 70°C (35W CPU) -25°C to 60°C (65W CPU)	
Certifications	UL 62368-1 Ed. 3, CE, FCC A, UKCA, ICES-003, MIL-STD-810H Compliant	
Dimensions (WxDxH)	157 x 340 x 240 mm	177 x 340 x 240 mm

KCO SERIES

X86 INDUSTRIAL EDGE AI WORKSTATIONS

RUGGED EDGE AI WORKSTATIONS BUILT FOR SCALABLE INDUSTRIAL COMPUTING

Designed for industrial AI deployments of any scale, Premio's x86 Edge AI Workstations combine workstation-class processing, FHFL GPU expansion, next-generation PCIe connectivity, and rugged industrial reliability. From real-time edge inference and machine vision to advanced AI model deployment and high-performance computing, these platforms deliver the flexibility and performance needed to accelerate AI-driven operations across industrial environments.

Support Dual GPU

Rich M.2 and PCIe Expansions

Workstation-Class Power Supply

Real-Time AI Performance

KCO-2000-RPL

MORE

Model	KCO-2000-RPL
Processor	12th/13th/14th Gen Intel® Core™ i3 to i9 (65W, LGA1700)
Chipset	Intel® Q670E
Memory	4x DDR4 DIMM, Max. 128GB
Display Output	4x DP++
Storage	1x Hot-swap 2.5" SSD (7mm), 4x SATA III
M.2 Expansion	2x M-Key (NVMe Gen4), 1x E-Key
I/O & LAN	1x 2.5GbE + 1x 1GbE, USB-C Gen2x2, 6x USB 3.1 Gen2, 4x USB 2.0, 2x COM + 4x internal COM, Audio
PCIe Expansion	1x PCIe x16 Gen5, 1x PCIe x16 Gen4 (x4 electrical), 1x PCIe x4 Gen4 (open-end), 1x PCIe x4 Gen3 (open-end)
PCIe Slots	4x slots, low-profile
Validated GPU	NVIDIA RTX PRO 2000 / PRO 4000 SFF Blackwell
Power Input	250W Flex PSU (AC 100–240V)
Operating Temperature	0°C to 40°C
Certifications	UL 62368-1 Ed. 3, CE, FCC, ICES-003, UKCA
Form Factor	2U Short-Depth
Dimensions (WxDxH)	324 x 276 x 89 mm

KCO-3000-RPL

MORE

Model	KCO-3000-RPL
Processor	12th/13th/14th Gen Intel® Core™ i3 to i9 (65W, LGA1700)
Chipset	Intel® Q670E
Memory	4x DDR4 DIMM, Max. 128GB
Display Output	4x DP++
Storage	1x 3.5" HDD or 2x 2.5" SSD/HDD (15mm), 4x SATA III
M.2 Expansion	2x M-Key (NVMe Gen4), 1x E-Key
I/O & LAN	1x 2.5GbE + 1x 1GbE, USB-C Gen2x2, 6x USB 3.1 Gen2, 4x USB 2.0, 2x COM + 4x internal COM, Audio
PCIe Expansion	1x PCIe x16 Gen5, 1x PCIe x16 Gen4 (4-Lane), 1x PCIe x4 Gen4 (open-end), 1x PCIe x4 Gen3 (open-end)
PCIe Slots	4x slots
Validated GPU	NVIDIA RTX PRO 2000, PRO 4000 SFF, PRO 4000 Blackwell
Power Input	500W Flex PSU (AC 100–240V)
Operating Temperature	0°C to 50°C
Certifications	UL 62368-1 Ed. 3, CE, FCC, ICES-003, UKCA
Form Factor	3U Rackmount
Dimensions (WxDxH)	324 x 300 x 133 mm

KCO-6000-ARL

Model	KCO-6000-ARL
Processor	Intel® Core™ Ultra 9/7/5 (65W TDP, LGA1851)
Chipset	Intel® W880
Memory	2x DDR5 5200MHz SODIMM, Max. (Non-ECC)
Display Output	2x DP, 1x HDMI (Triple Display)
Storage	1x M.2 M-Key (PCIe x4 NVMe / SATA), 1x 2.5" SATA bay
Expansion	1x M.2 E-Key (Wi-Fi), 1x M.2 B-Key (PCIe x2 NVMe/USB3.2, SIM holder)
I/O & LAN	3x 2.5GbE LAN, 6x USB 3.2 Gen2, 6x COM, Line-out + Mic-in, GPIO
PCIe Expansion	4x PCIe Slots, PCIe x16 Gen5 and Gen4
Supported GPU	Full-Length, Full-Height Blackwell GPUs
Power Input	DC-IN, AT/ATX mode (default ATX), 4-pin terminal block, OVP/OCP/Reverse Protection
Operating Temperature	-10°C to 50°C
Certifications	UL 62368-3, CE, FCC A, ICES-003, UKCA
Mounting Options	Wall Mount

LLM SERIES

EDGE AI RACKMOUNT SERVERS

SCALE AGENTIC AI AT THE EDGE

The LLM Series is a family of high-performance 1U, 2U, and 3U edge AI servers powered by Intel® and AMD platforms, engineered for on-premises deployment of Agentic AI, multimodal AI, and large language models. It delivers low-latency inference and scalable AI computing by processing data at the source to enable real-time decision-making and autonomous operations.

- Real-Time Performance
- Gen AI Inferencing
- Operational Redundancy
- Robust Physical Security

LLM-2U-AM5 MORE

LLM-3U-AM5 MORE

AMD RYZEN

Model	LLM-2U-AM5	LLM-3U-AM5
Processor	Support AMD Ryzen™ 9000/ 8000/ 7000 Series Desktop Processors & EPYC 4004 (Max. 170W TDP)	
Chipset	AMD B650	
Memory	4x 288-pin DDR5 5200 UDIMM. Max. up to 192GB (Non-ECC)	
Display Output	1x DisplayPort 1.4a, 1x HDMI 2.0 Max Resolution: 4096 2304 @60Hz	
M.2 Expansion	2x M.2 M-Key (2280, PCIe x4) Support NVMe Storage, 1x M.2 E-Key (2230) Support Wi-Fi 6E & BT-5.1	
Storage	2x 2.5" Internal SATA SSD Drive Bays (15mm) Support RAID 0,1	1x 2.5" Internal SATA SSD Drive Bay (15mm) 1x 3.5" Internal SATA SSD Drive Bay Support RAID 0,1
I/O Ports	2x GbE RJ45, 2x Broadcom 10GbE SFP+, 6x USB 3.2 Gen 2, 2x USB 2.0	
PCIe Slots	2x Full-Height, 2x Low-Profile PCIe Slots	7x Full-Height PCIe Slots
PCIe Lanes	2x PCIe x16 Slots Gen5/Gen4 (x16 Lane or x8 Lane) 1x PCIe x4 open end slot, 1x PCIe x1 (PCIe x4 Slot Type)	
Power Input	1x 850W Single Power Supply, AC: 115 to 230 V	
Operating Temperature	0°C to 35°C with 0.6 m/s airflow	
Mounting Options	Standard 2U rackmount (19-inch rack compatible)	Standard 3U rackmount (19-inch rack compatible)
Dimensions (WxDxH)	483 x 378 x 87 mm	483 x 378 x 132 mm

LLM-1U-RPL MORE

intel ai

Model	LLM-1U-RPL
Processor	12th/13th/14th Gen Intel® Core™ i3 to i9 (65W/35W TDP, LGA 1700)
Chipset	Intel® Q670E
Memory	2x DDR4 3200 SODIMM, Max. 64GB
Storage	2x 2.5" Hot-swap SATA SSD bays (7mm/15mm), RAID 0/1 supported
M.2 Expansion	1x M-Key (PCIe Gen3 x4 NVMe), 1x B-Key (NVMe/AI/4G/5G), 1x E-Key (Wi-Fi/BT)
I/O Ports	2x DP, 1x HDMI, 3x 2.5GbE LAN, 6x USB 3.2 Gen2 (Rear), 2x USB 3.2 Gen1 (Front), 2x COM
PCIe Slot	1x PCIe x16 Gen4 or 2x PCIe x8 Gen4
Validated GPU	NVIDIA RTX PRO 2000, PRO 4000 SFF, PRO 4000, PRO 4500 Blackwell
Power Input	Dual 600W Redundant PSU (AC 115–230V or DC –36 to –72V)
Operating Temperature	0°C to 35°C (with 0.6 m/s airflow)
Mounting Options	Standard 1U rackmount (19-inch rack compatible)
Dimensions (WxDxH)	483 x 480 x 44 mm

INDUSTRIAL DISPLAY SYSTEMS

FIO SERIES

IP65 OPEN FRAME

INDUSTRIAL TOUCHSCREEN MONITORS

HIO SERIES

IP65 OPEN FRAME

INDUSTRIAL TOUCHSCREEN COMPUTERS

AIO SERIES

IP65 ALL-IN-ONE

INDUSTRIAL TOUCHSCREEN COMPUTERS

IP65 DISPLAY

INDUSTRIAL TOUCHSCREEN MONITORS

VIO SERIES

IP65 MODULAR SYSTEMS

HIGH-BRIGHTNESS DISPLAY

PC SERIES

VIO COMPUTER MODULES

PC MODULE FOR INDUSTRIAL DISPLAY

MX SERIES

VIO MONITOR MODULES

MONITOR MODULE FOR INDUSTRIAL DISPLAY

SIO SERIES

IP66/69K STAINLESS STEEL

INDUSTRIAL TOUCHSCREEN COMPUTERS

BUILT RUGGED. BUILT READY.

Model	SIO SERIES	VIO SERIES	AIO SERIES	HIO SERIES	FIO SERIES
Ruggedness	**Super-Rugged**	**Rugged**	**Semi-Rugged**	**Durable**	
System Configuration	Touchscreen Computer	Touchscreen Computer or Monitor	Touchscreen Computer or Monitor	Touchscreen Computer	Touchscreen Monitor
Processor	• Intel® Alder Lake N97 • Intel® Celeron® J1900 • Intel® 8th Gen i5	• Intel® Core™ Ultra 5/7 • Intel® 7th Gen i3/i5 • Intel® Celeron® J6413 • Intel® Celeron® J1900	• Intel® Core™ Ultra 5/7 • Intel® Alder Lake N97 • Intel Atom® X7835RE • Rockchip RK3568J	• Intel® Alder Lake N97	-
Wireless Connectivity	Wi-Fi 6E, BT 5.x, 5G/4G/LTE			Wi-Fi 6E, BT 5.x	-
IP Rating	Full IP66/69K	Front IP65			
Built Design	Rugged Stainless-Steel SUS 316 Design	Modular Flexible Design	All In One Simple Design	Industrial Open Frame Design	
Screen Sizes	15“ - 23.8”	12.1” - 23.8”	10.1“ - 21.5”		15” - 27”
Touch Options	PCAP	PCAP/Resistive	PCAP		
Optical Bonding	Standard	Optional	-	-	-
Mounting Options	VESA Mount Yoke Mount	VESA Mount Panel Mount		Open-Frame Wall Mount	Open-Frame VESA Mount Panel Mount
Shock & Vibration	20G & 2.4Grms	20G & 1.5Grms	20G & 3Grms MIL-STD-810H Method 516.7 & 514.7 Procedure 1		-
Certifications	CE, FCC	CE, FCC, UL		CE, FCC	CE, FCC, UL

Our industrial touchscreen computers and monitors offer tailored solutions for diverse needs, featuring modular designs, stainless steel washdown panels, and open-frame PCs—built to tackle application challenges with precision and reliability.

FIO SERIES

INDUSTRIAL OPEN-FRAME
TOUCHSCREEN MONITORS

INDUSTRIAL HMI TOUCHSCREENS

The FIO Series are selection of standardized industrial open-frame touchscreen monitors that are designed to seamlessly integrate into both future and existing HMI systems. With the slim industrial-grade design, extended lifespan and world-class certifications, the FIO Series are purpose-built for ruggedized and suitable for various industries required minimal to no maintenance.

10-Points
PCAP Touch

Front Panel
IP65

50,000+
Hours MTBF

World Class Certifications
(UL, CE, FCC)

FIO SERIES MORE

HMIs (Human-Machine Interfaces) are critical data points for real-time controls, status, and information. Premio's line of rugged open-frame touchscreen monitors, FIO Series, are purpose-built to deliver dedicated data visualization and controls for industrial deployment applications. Designed for flexible compatibility, the FIO Series follows a standardized approach for seamless integration into both existing and future systems.

Open Frame

Model	FIO-XG1500C	FIO-SX1900C	FIO-FH2150C	FIO-FH2700C
LCD Size	15" (4:3)	19" (5:4)	21.5" (16:9)	27" (16:9)
Max. Resolution	1024 x 768 @60Hz	1280 x 1024 @60Hz	1920 x 1080 @60Hz	
Brightness (cd/m2)	350 nits	250 nits		300nits
Contrast Ratio	1000:1		3000:1	
LCD Color	16.7M			
Viewing Angle (H-V)	176/176	178/178		
Internal Speaker	AMP 5W + 5W	AMP 10W + 10W		
Touch Type	Projected Capacitive (PCAP) Touch, Multi-Touch up to 10 points			
I/O	1x Mini Din (External OSD) 1x USB (Type B) 1x DP 1x HDMI 1x VGA			
Power	12 VDC 100-240V AC, 50-60Hz			
Operating Temperature	0°C to 40°C		0°C to 50°C	0°C to 40°C
Certification	FCC, CE, UL 62368-1 3rd Ed			
Mounting Options	VESA: 75×75mm, 100×100 mm Rear Mounting, Side Mounting		VESA: 100×100 mm Rear Mounting, Side Mounting	VESA: 100×100 mm, 100x200 mm Rear Mounting, Side Mounting
Dimensions (WxHxD)	358 x 284.9 x 40.3 mm	420.1 x 348.1 x 42.1 mm	516 x 311 x 37.9 mm	644.2 x 388.4 x 40.8 mm
Weights (Net)	3.52 kg	4.82 kg	5.56 kg	7.35 kg

* The FIO Series is available exclusively for the North Americas, contact sales@premioinc.com for more information.

HIO SERIES

IP65 OPEN-FRAME
INDUSTRIAL TOUCHSCREEN COMPUTERS

OEM INTEGRATION READY FOR HUMAN MACHINE INTERFACE SOLUTIONS

The HIO Series is a versatile panel PC solution that unifies high efficient computing capabilities with I/O expandability. Designed for seamless industrial and commercial application integration with its sleek open frame design and advanced functionality.

10-Points
PCAP Touch

Diverse I/O
Customization

Front Panel
IP65

High Computing
Efficiency

HIO-200-ADL SERIES MORE

HIO Series provides a selection of Open Frame Touchscreen Computers ranging from 10.1" to 21.5" for seamless integration for HMI deployments. With ultimate screen readability and clarity, this series is front panel IP65 rated with 7H scratch resistant. All while being powered by Intel® Alder Lake N97 processor.

Model	HIO-W210-ADL	HIO-W215-ADL	HIO-W221-ADL
Display Size & Resolution	10.1" 1280 x 800 (WXGA)	15.6" 1920 x 1080 (FHD)	21.5" 1920 x 1080 (FHD)
Brightness	400 nits	400 nits	500 nits
Touchscreen	10-Point PCAP, 7H hardness		
Processor	Intel® Processor N97, up to 3.6GHz		
Memory & Storage	8GB DDR5 (max 32GB) + 128GB M.2 B-Key SSD		
I/O & LAN	4x USB 3.2 Gen2, 4x USB 2.0 (internal), 2x 2.5GbE LAN, 2x COM, Line-out		
Display Output	1x DP (4K@60), 1x HDMI (UHD@30)		
Expansion	1x M.2 E-Key (Wi-Fi 6E optional), dual PIFA antenna support		
Power Input	9–36V DC (60W adapter default)		
Operating Temperature	-10°C to 50°C		
Mounting Options	Open-frame panel mount, wall mount		
Dimensions (WxHxD)	252 x 166 x 39 mm	395 x 245 x 40 mm	533 x 325 x 46 mm

AIO SERIES

IP65 DISPLAY

INDUSTRIAL TOUCHSCREEN MONITORS

- AIO-200-MX Series

IP65 ALL-IN-ONE

INDUSTRIAL TOUCHSCREEN COMPUTERS

- AIO-200-ROK Series
- AIO-200-ADL Series
- AIO-200-MTL Series

IP65 ALL-IN-ONE
INDUSTRIAL TOUCHSCREEN COMPUTERS

SIMPLE SOLUTION FOR HUMAN MACHINE INTERFACE DEPLOYMENTS

The AIO Series is a reliable all in one panel PC solution that simplifies HMI solutions with high efficient computing capabilities and advanced I/O connectivity. Designed for simple industrial and commercial applications with its sleek all in one panel design and comprehensive functionality.

All In One Integrated System

10-Point PCAP Touch

Range of Display Size

Triple Independent Displays

AIO-200-MX SERIES

MORE

The AIO-200-MX Series offers a range of rugged touchscreen monitors engineered for industrial automation, factory HMI, and control room operations. Available in 10.1", 15.6", and 21.5" sizes, these fanless, cableless, and glove-friendly displays deliver exceptional durability and seamless performance—even in the most demanding conditions.

Model	AIO-W210-MX	AIO-W215-MX	AIO-W221-MX
Display Size & Resolution	10.1" 1280 x 800 (WXGA)	15.6" 1920 x 1080 (FHD)	21.5" 1920 x 1080 (FHD)
Brightness	400 nits	450 nits	400 nits
Touchscreen	PCAP, 10-point, 7H / IK07		
Front IP Rating	IP65		
I/O Ports	1x DP 1.1, 1x HDMI 1.4a, 2x USB 2.0, 1x USB Type-B (touch), Audio out, Speakers		
Power Input	12–24V DC (60W adapter included)		
Operating Temperature	-10°C to 50°C	0°C to 50°C	
MTBF	30,000 hours	50,000 hours	
Mounting Options	VESA 75/100, Panel Mount (optional)		
Dimensions (WxHxD)	256 x 170 x 50 mm	400 x 249 x 50 mm	538 x 329 x 62 mm

AIO-200-ROK SERIES

MORE

Rockchip

NEW

NEW

Model	AIO-W210-RK3568J	AIO-W215-RK3568J
Display Size & Resolution	10.1" 1280 x 800 (WXGA)	15.6" 1920 x 1080 (FHD)
Brightness	500 nits	
Touchscreen	PCAP, 7H / IK07 hardness	
IP Rating	IP65 (front bezel)	
Processor	Rockchip RK3568J Quad Cortex-A55, up to 2.0 GHz	
Memory & Storage	4GB LPDDR4 + 64GB eMMC	
I/O Ports	2x USB 3.0, 2x COM, 2x GbE LAN, 1x CAN, Line-out	
Expansion	1x M.2 E-Key (Wi-Fi 6), 1x M.2 B-Key (4G/LTE), antenna support	
Operating System	Android 13, Debian 11, Ubuntu 22.04	
Power Input	12-24V DC, 60W AC adapter	
Operating Temperature	-20°C to 60°C	
Mounting Options	VESA 75/100, Panel Mount (optional)	

AIO-200-ADL SERIES

MORE

intel.

Model	AIO-W210-ADL	AIO-W215-ADL	AIO-W221-ADL
Display Size & Resolution	10.1" 1280 x 800 (WXGA)	15.6" 1920 x 1080 (FHD)	21.5" 1920 x 1080 (FHD)
Brightness	400 nits	400 nits	500 nits
Touchscreen	PCAP, 7H / IK07 hardness		
IP Rating	IP65 (front bezel)		
Processor	Intel® Processor N97, up to 3.6 GHz		
Memory & Storage	DDR5 up to 32GB + 128GB M.2 B-Key SSD (Default)		
I/O Ports	4x USB 3.2 Gen2, 2x COM, 2x 2.5GbE LAN, Line-out		
Expansion	1x M.2 E-Key (Wi-Fi 6E), antenna support		
Operating System	Windows 10/11, Ubuntu 22.04 / 24.04 LTS		
Power Input	12-36V DC, 60W AC adapter		
Operating Temperature	-10°C to 50°C		
Mounting Options	VESA 75/100, Panel Mount (optional)		

AIO-200-MTL SERIES

MORE

intel.

NEW

NEW

NEW

Model	AIO-W210-MTL	AIO-W215-MTL	AIO-W221-MTL
Display Size & Resolution	10.1" 1280 x 800 (WXGA)	15.6" 1920 x 1080 (FHD)	21.5" 1920 x 1080 (FHD)
Brightness	400 nits	400 nits	500 nits
Touchscreen	PCAP, 10-point, 7H / IK07 + Glove Mode		
IP Rating	IP65		
Processor	Intel® Core™ Ultra 5 125U / Ultra 7 155U		
Memory & Storage	DDR5 up to 48GB + 128GB M.2 M-Key NVMe SSD		
I/O Ports	1x USB-C, 2x USB 3.2 Gen1, 1x USB 2.0, 2x COM, 3x 2.5GbE LAN, 2x DP		
Expansion	1x M.2 B-Key (4G/5G), 1x M.2 E-Key (Wi-Fi/Bluetooth), 1x SIM		
Operating System	Windows 10/11, Ubuntu 22.04 / 24.04 LTS		
Power Input	12-24V DC, 150W AC adapter		
Operating Temperature	-10°C to 50°C		
Mounting Options	VESA 75/100, Panel Mount (optional)		

AIO-200-ASL SERIES

MORE

intel.

Model	AIO-W210-ASL	AIO-W215-ASL	AIO-W221-ASL
Display Size & Resolution	10.1" 1280 x 800 (WXGA)	15.6" 1920 x 1080 (FHD)	21.5" 1920 x 1080 (FHD)
Brightness	400 nits	400 nits	500 nits
Touchscreen	PCAP, 10-point, 7H / IK07		
IP Rating	IP65 (front bezel)		
Processor	Intel® N97 / x7835RE		
Memory & Storage	DDR5 up to 32GB + 128GB M.2 B-Key SSD (Default)		
I/O Ports	2x USB 3.2 Gen2, 2x COM, 3x 2.5GbE LAN, DP, HDMI		
Expansion	1x M.2 E-Key (Wi-Fi 6E), 1x M.2 B-Key (4G/5G/SATA), Dual SIM		
Operating System	Windows 10/11, Ubuntu 22.04 / 24.04 LTS		
Power Input	12-36V DC, 60W AC adapter		
Operating Temperature	-10°C to 50°C		
Mounting Options	VESA 75/100, Panel Mount (optional)		

VIO SERIES

IP65 MODULAR INDUSTRIAL TOUCHSCREEN COMPUTERS & MONITORS

RUGGED IP65 MODULAR PANEL PC

The VIO Series modular touch display systems deliver an industrial-grade IP65 display solution designed specifically for HMI automation, information and communication applications. Its unique modular design makes the display system more flexible and versatile by providing a unique solution for both an industrial panel pc and a touch monitor.

PCAP/Resistive Touch

Modular Design

Wide Operating Temperature

Scratch-Resistant 7H Glass Screen

VIO-200 SERIES MORE

The VIO-200 Series display module offers a diverse range of standard screen sizes, resolutions, and touch technologies. Designed for seamless integration, it is fully compatible with both the PC Modules and Monitor Module, enabling effortless configuration, upgrades, and maintenance.

16:9
Thin Frame

Model	VIO-W215	VIO-W221	VIO-W224
LCD Size	15.6″	21.5″	23.8″
Max. Resolution	1920 x 1080 (Full HD)		
Brightness (cd/m2)	500 nits		450 nits
	1,000 nits (Optional)		
Contrast Ratio	1,000:1		
LCD Color	16.7M		
Life Cycle Time	50,000 Hours	30,000 Hours	
Viewing Angle (H-V)	178 / 178		
Internal Speaker	AMP 10W + 10W		
Touch Type	Resistive 5-wire Touch / Projected Capacitive Touch		
Operating Temperature	-10°C to 60°C	-10°C to 50°C	

4:3
Thin Frame

Model	VIO-212	VIO-215	VIO-217	VIO-219
LCD Size	12.1″	15″	17″	19″
Max. Resolution	1024 x 768 (XGA)		1280 x 1024 (SXGA)	
Brightness (cd/m2)	600 nits	350 nits		
	1,000 nits (Optional)			
Contrast Ratio	1000:1		800:1	1000:1
LCD Color	16.2M	16.7M		
Life Cycle Time	50,000 Hours			
Viewing Angle (H-V)	178 / 178	170 / 160	178 / 178	170 / 160
Internal Speaker	AMP 5W + 5W	AMP 10W + 10W		
Touch Type	Resistive 5-wire Touch / Projected Capacitive Touch			
Operating Temperature	-10°C to 60°C			-10°C to 50°C

VIO-300 SERIES

16:9
Thin Frame

Model	VIO-W315	VIO-W321	VIO-W324
LCD Size	15.6″	21.5″	23.8″
Max. Resolution	1920 x 1080 (Full HD)		
Brightness (cd/m2)	500 nits		
	1,000+ nits (Optional)		
Contrast Ratio	1000:1		
LCD Color	16.7M		
Life Cycle Time	50,000 Hours		
Viewing Angle (H-V)	178 / 178		
Internal Speaker	2W		
Touch Type	Resistive 5-wire Touch / Projected Capacitive Touch		
Operating Temperature	-10°C to 60°C		

4:3
Thin Frame

Model	VIO-312	VIO-315	VIO-317
LCD Size	12.1″	15″	17″
Max. Resolution	1024 x 768 (XGA)		1280 x 1024 (SXGA)
Brightness (cd/m2)	600 nits	350 nits	
	1,000 nits (Optional)		
Contrast Ratio	1000:1		-
LCD Color	16.2M	16.7M	
Life Cycle Time	50,000 Hours		
Viewing Angle (H-V)	178 / 178	170 / 160	178 / 178
Internal Speaker	-	2W	
Touch Type	Resistive 5-wire Touch / Projected Capacitive Touch		
Operating Temperature	-10°C to 60°C		

MX100H

MORE

- 12.1” ~ 23.8” Thin Frame Full Range Touch Monitors
- Projected Capacitive and 5-wire Resistive Touchscreen Available
- 9 to 48 VDC Wide Range Power Input
- Aluminum Die-casting Front Frame
- Front Panel IP65 Rating

Model	MX100H
VGA	1x VGA Input
HDMI	1x HDMI Input
DisplayPort	1x DisplayPort Input
USB	1x USB 2.0 Input
COM Port	1x COM Port Input (Resistive Touch Only)
Audio	1x Audio Input
Power	3-pin, AT/ATX 9-48V
Operating Temperature	-10°C up to 60°C (with display module)
Dimensions (WxDxH)	246 x 220 x 37 (mm)

PC100-EHL SERIES

MORE

Model	PC100-EHL	PC100-EHL-1
Processor	Intel® Celeron® J6413, 4 cores, 10W TDP, up to 3.0 GHz	
Memory & Storage	1x DDR4 SODIMM, Max. 32GB; 1x 2.5" SATA HDD bay; 1x mSATA; 2x SIM sockets	
Expansion	1x full-size Mini PCIe (USB2.0/SATA); M.2 E-Key (Wi-Fi); M.2 B-Key (PCIe x2 + USB3.2 Gen1)	Same as PC100-EHL plus 1x PCIe x4 slot (1-lane) and 1x Universal I/O Bracket
I/O & LAN	2x LAN (1x GbE + 1x 2.5GbE), 6x COM (4 external + 2 internal), USB 3.2 Gen2 & USB 2.0, DP, LVDS, Audio, 8x DI / 8x DO (isolated), CAN	Same I/O & LAN configuration

PC100-TWL SERIES

Model	PC100-TWL
Processor	Intel® Processor N150 (4 cores, 6W)
Memory & Storage	1x DDR5 SO-DIMM 4800/5600 MT/s, Max. 32GB; M.2 M-Key NVMe SSD (Gen3 x2) + Hot-swap 2.5" SATA SSD
Expansion	M.2 B-Key (PCIe x1 / USB3.0, 4G/5G, Dual Nano SIM), M.2 E-Key (Wi-Fi), 1x PCIe Gen3 x1 (x4 open-end)
I/O & LAN	2x 2.5GbE LAN (Intel® i226-IT), 6x COM, USB 3.2 Gen2 Type-A & Type-C, DIO 8-in/8-out (isolated), CAN-FD
Power, OS & Environment	9–36V DC (AT/ATX), OVP/OCP/Reverse/Surge protection; Windows 10/11, Ubuntu 22.04/24.04 LTS; -20°C to 60°C operation

PC600-MTL SERIES

Model	PC600-MTL	PC600-MTL-1E
Processor	Intel® Core™ Ultra 5 125U	
Memory	1x DDR5 5600 SODIMM, Max 32GB	
Storage	1x Hot-swap 2.5" SATA (RAID 0/1), 1x M.2 M-Key NVMe	
Display Output	1x DP 1.2, 1x HDMI 2.0b, 1x LVDS Compatible with VIO-300 Touch Display Module	
Expansion	2x M.2 B-Key + 1x M.2 E-Key	
PCIe Slot	-	1x PCIe x4 (4-lane)
I/O & LAN	2x 2.5GbE LAN, 2x USB 3.2 Gen1, 1x USB-C Gen2, 1x USB2 TYPE A, 6x COM (4 external + 2 internal), Audio, DIO 8-in/8-out with isolation, 2x CAN (Optional), 4x antenna holes, + 1x Universal I/O bracket for PC600-MTL-1E	
Operating System	Windows 10/11, Ubuntu 22.04 / 24.04 LTS	
Power Input	9–48V DC, AT/ATX mode, OVP/OCP/Reverse Protection	
Operating Temperature	0°C to 55°C	
Certifications	CE, FCC Class A, MIL-STD-810H (shock/vibration)	

SIO SERIES

IP66/69K STAINLESS STEEL INDUSTRIAL TOUCHSCREEN COMPUTERS

SUS 316 WASHDOWN TOUCHSCREEN COMPUTER

The SIO Series unifies advanced compute capabilities, I/O expandability and interactive display for dynamic industrial deployments. The stainless steel SIO Series are designed fanless, strong and tightly sealed to sustain punishing temperatures, harsh impacts, caustic contact and intense equipment washdowns.

- Optical Bonding
- Wide Temperature
- Shock And Vibration Resistance
- TPM 2.0 Security Module

SIO-300-ASL SERIES MORE

Model	SIO-315-ASL	SIO-W315-ASL	SIO-W321-ASL	SIO-W324-ASL
Processor	Intel® Processor N97 (up to 3.6 GHz, 4-core) or Intel® Atom x7835RE (up to 3.6 GHz, 8-core), 12W TDP			
Display Size & Resolution	15" 1024 x 768 (XGA)	15.6" 1920 x 1080 (FHD)	21.5" 1920 x 1080 (FHD)	23.8" 1920 x 1080 (FHD)
Brightness	450 nits		400 nits	450 nits
Touchscreen	PCAP, 7H hardness, IK07 impact rating, optical bonding			
Front IP Rating	Full System IP66 / IP69K, SUS316 stainless steel enclosure			
Memory	1x DDR5 4800/5600 MT/s SO-DIMM, up to 32GB (non-ECC)			
Storage	1x M.2 B key NVMe SSD		1x M.2 B key NVMe SSD 2.5" SATA SSD, Support	
Expansion	1x M.2 E-Key (Wi-Fi 6E), 2x Antenna Holes		1x M.2 B-Key (4G/5G) + 1x M.2 E-Key (Wi-Fi 6E), 4x Antenna Holes	
I/O Ports (M12)	2x 2.5GbE LAN (M12 X-code), 1x COM RS-232/422/485(Default RS232), 1x COM RS232 (M12 A-Code), 1x M12 A-code by 2x USB 2.0 (8-pin)			
Operating System	Windows 10/11, Ubuntu 22.04			
Power Input	110-240V AC, M12 S-code connector, ATX mode (Default)			
Operating Temperature	-10°C to 50°C (fanless)			
Certifications	CE, FCC Class A; MIL-STD-810H shock & vibration compliant			
Mounting Options	VESA 100x100 / 200x100, Yoke mount optional			

INDUSTRIAL BOARD SOLUTIONS

1.8" SERIES

FEMTO ITX
MINI INDUSTRIAL SBC

2.5" SERIES

PICO ITX
COMPACT INDUSTRIAL SBC

3.5" SERIES

3.5-INCH
SFF INDUSTRIAL SBC

MINI-ITX SERIES

RICH I/O
INDUSTRIAL MOTHERBOARD

MICRO ATX SERIES

RICH EXPANSIONS
INDUSTRIAL MOTHERBOARD

ATX SERIES

HIGH-PERFORMANCE
INDUSTRIAL MOTHERBOARD

Our line of industrial motherboards and single board computers represent the standard of embedded computing as well as the future of data processing and I/O connectivity. From OEM /ODM enterprise computing designs to embedded single board computer applications, We provide reliability and longevity with standard off-the-shelf industrial grade motherboards for the most challenging embedded deployments.

We also provide end-to-end engineering services to ensure your configuration requirements and solve your mechanical design challenges. From a full custom solution to a small change in the I/O, we can adapt each motherboard to comply with your specifications without compromising performance.

BOARDS SERIES

MORE

We offer industrial-grade scalability with standard motherboards and OEM system design. Standard form factors include: Single board computers (1.8" Femto-ITX, 2.5" PICO-ITX, and 3.5" SBCs); Mini-ITX; and Micro-ATX.

1.8" FEMTO ITX SERIES

Model	CT-NR101
CPU	AMD Ryzen™ Embedded R1606G with Radeon™ Vega 3 Graphics (3.5GHz/2 Core)
Memory	1x DDR4-2400 Single-Channel Memory 4GB (Up to 8GB, Optional)
Storage	eMMC up to 64GB
Display	2x Micro HDMI 1.4 (4K DCI)
Rear I/O	1x RJ45 (GbE) 1x Type C USB 3.1 Gen 1 (5V/3A) 2x 5-pin header DIO (4-in/4-out)
Internal I/O	1x USB 2.0 (4-pin header, internal)
Expansion	1x Full-size Mini PCIe (PCIe x1, USB 2.0) 1x SMBus
Operating Systems	Windows 10, Linux Kernel 5.x
Power	ACPI, DC IN 12V
Operating Temperature	0°C to 60°C
TPM	TPM 2.0
Dimension	84 x 55 mm

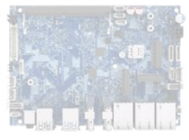
2.5" PICO ITX SERIES

Model	CT-PBT01
CPU	Intel® Celeron Processor J1900 (2.0GHz/4 Core/10W)
Memory	1x 204-Pin DDR3L 1066/1333MHz SO-DIMM. Max. up to 8GB
Storage	1x SATA 3.0Gb/s 1x mSATA (shared by 1x Mini PCIe)
Display	1x HDMI (2048x1080 @60Hz) 1x LVDS
Rear I/O	1x USB 3.0, 1x USB 2.0 1x RJ45
Internal I/O	1x RS-232/422/485, 1x RS-232 2x USB 2.0 1x 8-bit GPIO (4-in/4-out)
Expansion	1x Half-size Mini PCIe 1x Half-size Mini PCIe (Full-size optional)
Operating Systems	Windows 10, Windows 7, WES7 Linux kernel 3.X
Power	ACPI, DC IN 12V
Operating Temperature	-10°C to 70°C
TPM	N/A
Dimension	100 x 72 mm

BOARDS 3.5” SBC SERIES

MORE

Model	CT-DR101	CT-DAL01	CT-DAL11
Processor	AMD Ryzen™ Embedded R1000/V1000 Series	Intel® N97 / Intel® Core i3-N305	Intel® N97 / Intel® Atom® x7835RE
Memory	2x DDR4 SO-DIMM, Max 32GB	1x DDR5 SO-DIMM, Max 32GB	1x DDR5 SO-DIMM, Max 32GB
Storage	1x M.2 B-Key (SATA), 1x SATA	1x SATA	1x SATA
Expansion	1x Full-size Mini PCIe, 1x M.2 B-Key	1x M.2 B-Key, 1x M.2 E-Key	1x M.2 B-Key (SATA/PCIe/USB3), 1x M.2 E-Key
I/O & LAN	2x GbE, DP, HDMI, 2x USB 3.2 Gen2, 2x USB 2.0, 2x COM	2x 2.5GbE, DP, HDMI, 2x USB 3.2 Gen2, 2x USB 3.2 Gen1, 4x USB2.0, 2x COM	3x 2.5GbE, DP, HDMI, eDP, 2x USB 3.2 Gen2, 2x USB2.0, Dual Nano SIM, 2x COM



Coming Soon

Model	CT-DAS01 / CT-DAS02	CT-DML01	CT-DPL01
Processor	• CT-DAS01: Intel® X7433RE/X7835RE Wide Temperature • CT-DAS02: Intel® N150	Intel® Core™ Ultra 5 125U / Ultra 7 155U	Intel® Core™ Ultra Series 3 (Panther Lake-H), 25W
Memory	1x DDR5 4800 SO-DIMM (Max 16GB)	1x DDR5 5600 SO-DIMM (Max 48GB)	1x DDR5 SO-DIMM, (Max 128GB)
Storage	1x M.2 M-Key NVMe + 1x SATA (share with B Key)	1x M.2 M-Key (NVMe/SATA Auto-Detect)	1x M.2 M-Key 2280, PCIe Gen4 x4 NVMe
Expansion	M.2 B-Key (NVMe/4G/5G), M.2 E-Key (Wi-Fi/BT)	M.2 B-Key (4G/5G), M.2 E-Key (Wi-Fi/BT)	M.2 E-Key (Wi-Fi/BT), M.2 B-Key (4G/5G), Dual Nano SIM
I/O & LAN	2x 2.5GbE, DP, HDMI, USB-C, 3x USB 3.2, COM, DIO	3x 2.5GbE, 2x DP, USB-C, USB 3.2, COM, DIO, Dual SIM	3x 2.5GbE, USB-C + PD, DP, USB 3.0, 4x COM, GPIO, Audio

BOARDS MINI ITX SERIES

MORE

NEW

Model	CT-XRL02	CT-XAR01
Processor	Intel® 12th/13th/14th Gen Core™ i9/i7/i5/i3 (65W, LGA1700)	Intel® Arrow Lake-S Core Ultra 9/7/5 Series (65W, LGA1851)
Chipset	Intel® Q670E	Intel® W880
Memory	2x DDR4 3200 SO-DIMM, max 64GB	2x DDR5 5600 SO-DIMM, ECC/Non-ECC, max 96GB
Display Output	2x DP, 1x HDMI (Triple Display)	2x DP, 1x HDMI, 1x LVDS/eDP (Quad Display)
Storage	1x M.2 M-Key NVMe (Gen3), 3x SATA 6Gb/s (RAID 0/1/5)	1x M.2 M-Key (NVMe/SATA, 2280), 2x SATA 6Gb/s (RAID 0/1)
Expansion	1x PCIe x16 (Gen4 via golden-finger riser), 1x M.2 E-Key, 1x M.2 B-Key (with Nano SIM)	1x PCIe x16 (Gen5), 1x M.2 E-Key, 1x M.2 B-Key
LAN	3x 2.5GbE (Intel® I226 series)	
I/O Ports	6x USB 3.2 Gen2, 2x USB 3.2 Gen1 (internal), 2x USB2.0 (internal), 2x COM RS-232/422/485, Audio	6x USB 3.2 Gen2, 2x COM RS-232/422/485, Audio Line-out/Mic-in
Operating System	Windows 10/11, Linux Kernel	Windows 10/11 IoT Enterprise, Ubuntu 22.04/24.04 LTS
Power Mode	ATX 24-Pin + 12V-8Pin	ATX 24-Pin
Environment & Certification	0°C to 60°C, CE, FCC Class A	0°C to 60°C, CE, FCC Class A, UKCA
Form Factor	170 x 170 mm	

BOARDS MICRO ATX SERIES

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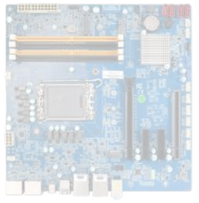

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Model	CT-MRL01	CT-MBL01
Processor	12th/13th/14th Gen Intel® Core™ i9/i7/i5/i3 (65W, LGA1700)	12th/13th/14th Gen Intel® Core™ Ultra / Core™ (Alder Lake-S / Raptor Lake-S / Bartlett Lake-S), up to 65W
Chipset	Intel® Q670E	
Memory	4x DDR4 DIMM (2133–2666MHz), max 128GB	4x DDR5-4400 UDIMM, max 128GB
Display Output	4x DP++ (quad-display support)	4x DP++ (quad-display support)
Storage	2x M.2 M-Key NVMe/SATA (2242/2260/2280), 4x SATA 6Gb/s	2x M.2 M-Key NVMe/SATA (2242/2260/2280), 4x SATA 6Gb/s
Expansion Slots	1x PCIe x16 Gen5, 1x PCIe x16 Gen4 (4-lane), 1x PCIe x4 Gen4, 1x PCIe x4 Gen3	1x PCIe x16 Gen5, 1x PCIe x16 Gen4 (4-lane), 1x PCIe x4 Gen4, 1x PCIe x4 Gen3
LAN	1x 1GbE (Intel® I219LM), 1x 2.5GbE (Intel® I225-V)	2x 2.5GbE (Intel® I226 series)
I/O Ports	6x USB 3.1 Gen2, 1x USB-C Gen2x2, 2x USB 3.0 (internal), 4x USB 2.0 (internal), 6x RS-232, Audio, 8-bit DIO	6x USB 3.1 Gen2, 1x USB-C Gen2x2, 2x USB 3.0 (internal), 4x USB 2.0 (internal), 6x RS-232, Audio, 8-bit DIO
Operating System	Windows 10/11, Linux Kernel 5.x	Windows 11 IoT, Ubuntu 22.04/24.04
Power	ATX power, ACPI 5.0, dual 12-pin + 2-pin headers	ATX power, ACPI 5.0, dual 12-pin + 2-pin headers
Environment & Certifications	Operating: 0°C to 60°C; Storage: –40°C to 85°C; 10–90% RH; CE, FCC Class B	Operating: 0°C to 60°C; Storage: –40°C to 85°C; 10–90% RH; CE, FCC Class B
Form Factor	244 x 244 mm	

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Model	CT-ARL01	CT-AR701
Processor	12th/13th/14th Gen Intel® Core™ i9/i7/i5/i3, Pentium®, Celeron® (LGA1700), up to 125W TDP.	AMD Ryzen™ 9000/8000/7000 Series Desktop CPUs & EPYC™ 4004 (Socket AM5), up to 170W TDP
Chipset	Intel® R680E Express Chipset.	AMD B650
Memory	4x DDR5 4400 ECC/non-ECC UDIMM slots, up to 128GB.	4x DDR5 UDIMM, dual-channel, up to 256GB (DDR5 5200 MT/s 1DPC)
Display Output	3 independent displays: 1x DP (4096x2160@60Hz), 1x HDMI (4096x2304@60Hz), 1x VGA (1920x1200@60Hz).	1x DP 1.4a (4096x2160@60Hz), 1x HDMI 2.0 (4096x2160@60Hz); dual independent displays
Storage	4x SATA 3.0 (RAID 0/1/5/10), 2x M.2 M-Key (1 from CPU, 1 shared with PCIe Slot 5).	4x SATA 3.0 (AHCI), 1x M.2 M-Key (2242/2280)
Expansion Slots	PCIe Slots: 2x PCIe x16 (Gen5, configurable as x16 or dual x8), 4x PCIe x4, 1x PCIe x1.	2x PCIe x16 (Gen5/Gen4, x16 or dual x8), 1x PCIe x4 (open-end), 2x PCIe x1
M.2 Expansion	M.2 Slots: 1x M-Key, 1x E-Key (PCIe x1), 1x B-Key (PCIe x2).	1x M.2 M-Key (PCIe x4, NVMe), 1x M.2 E-Key 2230 (PCIe x1 + USB 2.0)
LAN	4x 2.5GbE (Intel® I225-LM).	2x 1GbE (Intel® I210AT, RJ-45) + 2x 10GbE (Broadcom BCM57412, SFP+)
I/O Ports	Rear I/O: 8x USB 3.2 Gen2, 1x DP, 1x HDMI, 1x VGA, 1x Mic-in, 1x Line-out, 1x PS/2.	Rear: USB 3.2 Gen2 Type-A, DP+HDMI stack, Audio jack, LAN; Internal USB headers supported
Internal I/O	Internal: 2x USB 3.2 Gen1, 3x USB 2.0, 6x COM (RS-232/422/485), GPIO (16-bit), SMBus, I C, PMBus.	6x COM, multiple USB headers, TPM 2.0, GPIO, fan headers, OOB connector, watchdog
Operating System	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 22H2, Linux Kernel 5.xx, Ubuntu 22.04 LTS.	Windows 11 (Ryzen 7000/8000), Linux Kernel 5.x, Ubuntu 22.04 LTS (pre-scan)
Power	ATX-Power 24-Pin + 12V-8Pin; ACPI 5.0; Watchdog Timer; TPM 2.0 (Infineon SLB9672).	ATX power: 24-pin ATX + 8-pin 12V, AT/ATX selectable
Environment & Certifications	Operating Temp: 0 to 60°C; Storage: -20 to 80°C; Humidity: 10-90% RH.	Operating 0 to 60°C, Storage -20 to 80°C, 10-90% RH (non-condensing)
Certifications	Certifications: CE, FCC Class-B, DSMI, RCM, VCCI.	CE, FCC Class B, RoHS compliant
Form Factor	305 x 244 mm	

* The CT-ARL01 Series is available exclusively in the North Americas, contact sales@premioinc.com for more information.

INDUSTRIAL COMPUTING SOLUTIONS

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