C&T SOLUTION INC.

# PRODUCT
## SOLUTION GUIDE

# 2025

INDUSTRIAL COMPUTING
SOLUTIONS FROM THE
EDGE TO THE CLOUD


BEYOND THE RUGGED EDGE

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YOUR TOP CHOICE PARTNER IN INDUSTRIAL COMPUTING FROM THE

# EDGE TO THE CLOUD

Established in 2011, Taipei, C&T Solution Inc. is becoming one of the fastest-growing companies in the Industrial Computing Systems field. With its obsession with creating the best rugged edge computers as the core of great industrial leading solutions, C&T has become one of the top enterprises in providing world-class industrial embedded systems.

C&T is a global solutions provider specializing in industrial computer and embedded fields. We are committed to developing and manufacturing rugged edge computers, industrial panel PCs, industrial display systems, and industrial motherboards. C&T strives for the highest standards in innovation and technology to stay ahead of competitors in terms of design, technology, reliability, and versatility.

Our teams have worked strongly and closely with the customers to provide the high-quality and high-value creation of robust embedded computers. Moreover, our engineering specialty and agile manufacturing push the technical boundaries in embedded IoT computers. As a result, C&T is determined to become your top choice partner in industrial computing solutions. Therefore, C&T has an extensive customer base through global network and distribution partners from offices located worldwide.




C&T proudly offers diverse industrial technologies to meet various customers' needs based on their applications and industries. Our application-ready solutions are contributing to escalating advancement in a varied array of industrial sectors, including:

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



## OUR MISSION

C&T is dedicated to creating and delivering world-class technology solutions that empower our clients to reach their business goals. We will apply the highest creativity, integrity, quality, and innovation standards to our products and concepts.

## OUR VISION

Our vision is to create the best rugged edge computers as the core of great solutions that transform people's life. We will relentlessly innovate to deliver world-class edge computers for industry-leading solutions.

## OUR VALUE

We strive to exceed our customers' expectations with innovative and competitive solutions. For us, this means providing unsurpassed service, delivering premium value, and offering a competitive edge to tour customers. Additionally, our OEM and ODM collaboration constantlyaim to deliver high-quality products, reliable partnerships, professional service, and competitive price, service, and competitive price.

## OUR CORE VALUES

We deliver our core brand values through the way we conduct business. C&T 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 C&T, we treat customers with dignity, respect, and courtesy. We listen objectively to their needs and respond in a timely, efficient, and responsible manner.

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APPLICATION

# RAILWAY & ROLLING STOCK


## JCO-6000-ORN Series

NVIDIA Jetson AGX Orin Visit P.39

| 8x | 10x | 12x |
|---|---|---|
| GMSL2 | USB Locking | M12 PoE |


## ACO-6000-RPL Series

Visit P.45

In-Vehicle Computer with Intel® 12th/13th/14th Gen Processors

| 16x | FULL Certification |
|---|---|
| M12 PoE | EN50155 EN45541 |

## RCO-3000-RPL Series

Visit P.25

Small Form Factor Computer with Intel® 12th/13th/14th Gen Processors

| 4x | 5G | -25°C to 70°C |
|---|---|---|
| M12 PoE | 3x SIM Slot | Wide Temperature |





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# IN-VEHICLE & AGV

Edge AI Enabled · Rich I/O Expansion · Shock & Vibration Resistant · Compact & Fanless

## RCO-6000-RPL Series

Visit P.27

Industrial Computer with Intel® 12th/13th/14th Gen Processors

| GPU | 6x | 8x |
|---|---|---|
| RTX 4000 SFF<br>RTX A2000 ADA | SSD Storages | M12 PoE |



## JCO-3000-ORN Series

Mid-Range AI Computer with NVIDIA Jetson Orin NX and Orin Nano Visit P.38

| 4x | OOB |
|---|---|
| RJ45 PoE | Remote Management |


| 5G | Rich I/O | MINI | -40°C to 70°C |
|---|---|---|---|
| 2x SIM Slot | Customizable I/O Modules | 150 x105 x49 mm | Wide Temperature |

## RCO-1000-EHL Series

Compact fanless embedded Computer with Intel® Elkhart Lake x6425E Atom® Processor Visit P.24

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# MACHINE VISION
## INDUSTRIAL COMPUTERS

- Robust CPU Performance
- Rich I/O Expansion
- GPU Supports
- Industrial Grade

### BCO-6000-RPL Series Visit P.21

High-Performance Industrial Edge Computer with Intel® 12th/13th/14th Gen Processors

**GPU** RTX A2000

**Cost Effective** Industrial Alternative


### VCO-6000-RPL Series Visit P.47

Machine Vision Computer with Intel® 12th/13th/14th Gen Processors

**4x** PCIe Gen 4 Slots

**600W** GPU Power

**Dual GPU** RTX 4000 SFF ADA



**4x** PCIe 5.0, 4.0, 3.0

**3U** Rackmount

**Dual GPU** RTX A4000 SFF

### KCO-3000-RPL Series Visit P.49

3U Rackmount Fanned Industrial Computer with Intel® 12th/13th/14th Gen Processors



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SMART MANUFACTURING
# TOUCH SCREEN COMPUTERS

High Efficient Computing

10" ~ 24" Bright Displays

24 Extended MTBF

Industrial Durability

### AIO-200-ADL Series

All-in-One IP65 Industrial Panel PC

Visit P.54

**IP65** Front Panel Protection

**SLIM** 5~6.2 cm Thick

**ADL/ASL** Intel N97 and X7835RE CPU

MACHINE VISION MODULAR PANEL PC

### VIO/PC600-MTL Series Visit P.58

High-Performance Panel PC with Intel® Meteor Lake CPU

**4x** RJ45 POE

**IP65** Front Panel Protection

**PCIe 4.0** One PCIe x4 Slot

**IP68/69K** Dust & Waterproof

**SUS316** Corrosion Proof


### SIO-300-ADL Series Visit P.63

Stainless Steel Industrial Panel PC

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# SMART CITY


**RICH I/O**
Flexible I/O and M.2 Expansions

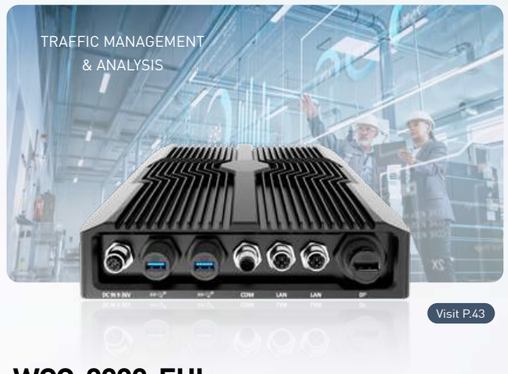
**Mini**
150 x 105 x 49 mm

**OOB**
Remote Management


## DCO-1000-ASL Series

Visit P.41

DIN-Rail Fanless Computer with Intel® Atom® X7433RE Amston Lake Processor




Visit P.43

## WCO-3000-EHL Series

IP68/69K Waterproof Computer with Intel® Atom® X6425E Elkhart Lake Processor

**IP68/69K**
Dustproof & Waterproof

**M12**
Optional 2x PoE

**-40°C to 60°C**
Wide Temperature


Visit P.35

## ECO-1000 Series

EDGEBoost EnergyPack Industrial-Grade Supercapacitor UPS

**200W**
High Power Output

**10Year**
Extra Longevity

**-25°C to 55°C**
Wide Temperature




Cost Effective
Power Efficient
Quick Deployments
Industrial Durability

# KIOSK & RETAIL

**10“-21"**
FHD PCAP Displays

**Balanced I/O**
Flexible I/O and M.2 Expansions

**-10°C to 50°C**
Fanless Design

## HIO-200-ADL Series

Visit P.52

Open-Frame Touchscreen Computer with Intel® Atom® N97 Processor


Visit P.38

## JCO-1000-ORN Series

Fanless Mini PC with NVIDIA Jetson Orin NX/Nano Super Module

**40 TOPS**
Edge AI Enabled

**Mini**
150 x 105 x 61 mm

**-20°C to 60°C**
Wide Temperature

**Rich I/O**
Rich I/O Ports and M.2 Expansions


Visit P.18

## BCO-500 Series

Fanless Mini PC with Intel® Atom® X7835RE and N97 Processor

**Mini NUC**
Intel® NUC Alternative

**Dual 4K**
DP and HDMI

**4G/5G**
High-Speed Wireless Connectivity

**Rich I/O**
Rich I/O Ports and M.2 Expansions

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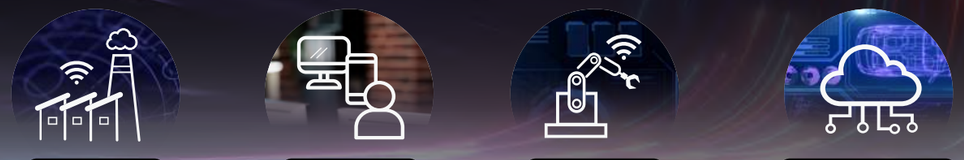
# THE EDGE CONTINUUM

## 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




| Industrial Edge | Rugged Edge | Specialized Edge |
|---|---|---|
| • Controlled Environments<br>• Fanless Cooling Design<br>• Dust, Shock, and Vibration Resistant<br>• Standardized Form Factors<br>• Durable and Cost-Effective<br>• Long Lifetime Support | • Extreme Environments<br>• Wide Operating Temperature<br>• Powerful Computing Capabilities<br>• Supports EDGEBoost Technology for I/O, M.2, and PCIe Customization<br>• Reinforced Durability | • Designed for Industry-Specific Needs<br>• Validated with Niche Certifications<br>– EN50155 (Railway)<br>– EN45545 (Fire Safety)<br>– E-Mark (In-Vehicle)<br>– IP68/IP69K (Waterproof) |

### 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.

### 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.

### DCO Series
**DIN RAIL Fanless Computers**

### WCO Series
**IP68/IP69K Waterproof**

### ACO Series
**EN50155 Railway & In-Vehicle**

### VCO Series
**Machine Vision GPU Computers**

### KCO Series
**Rackmount Industrial Computers**





# 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


| Industrial Edge | Rugged Edge | Specialized Edge |
|---|---|---|
| • Controlled Environments<br>• Flexible Performance<br>• Fanless Cooling Design<br>• IP65 Front Display<br>• 10"-21" Full HD Displays<br>• Extended MTBF | • Industrial Environments<br>• Various Computing Capabilities<br>• Wide Temperature Range<br>• Shock & Vibration Resistant<br>• Reinforced Durability<br>• Fit for Demanding Edge Applications | • Tailored for Industry-Specific Needs<br>• Includes IP68/IP69K Waterproof, SUS-316 Stainless Steel, and Optical Bonding<br>• Targeted Functionality for Specialized Applications |

### 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.

### VIO Series
**Modular Touchscreen Monitors and 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

### SIO Series
**SUS 316 Stainless Steel Touchscreen Computers**

The SIO Series is an IP68/IP69K-rated Panel PC built with full SUS-316 stainless steel construction, offering superior waterproof and corrosion-resistant protection during intense washdowns.

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# INDUSTRIAL EDGE COMPUTERS

**BCO** SERIES
SEMI-RUGGED INDUSTRIAL COMPUTERS

**WCO** SERIES
IP68/IP69K WATERPROOF INDUSTRIAL COMPUTERS

**RCO** SERIES
SUPER-RUGGED INDUSTRIAL COMPUTERS

**ACO** SERIES
RAILWAY & IN-VEHICLE INDUSTRIAL COMPUTERS

**JCO** SERIES
JETSON AI EDGE INDUSTRIAL COMPUTERS

**VCO** SERIES
MACHINE VISION INDUSTRIAL COMPUTERS

**DCO** SERIES
DIN RAIL FANLESS INDUSTRIAL COMPUTERS

**KCO** SERIES
FANNED INDUSTRIAL COMPUTERS

## EDGEBoost Technologies

### EDGEBoost Nodes

**EBND** SERIES
EDGE AI PERFORMANCE ACCELERATORS MODULES

### EDGEBoost I/O

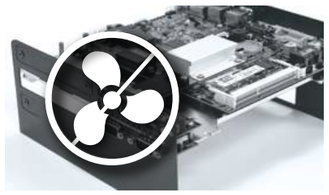
**EBIO** SERIES
FLEXIBLE I/O AND M.2 EXPANSION MODULES

### EDGEBoost EnergyPack

**ECO** SERIES
SUPERCAPACITOR UPS BACKUP SYSTEM







### 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

RCO & ACO Series comply with MIL-STD 810G on shock & vibration in order to sustain in environment like 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

C&T 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

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# BCO SERIES
## SEMI-RUGGED INDUSTRIAL COMPUTERS

## 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 & Ruggeddized Design



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# BCO SERIES

BCO 500 Mini
BCO 1000 Compact
BCO 3000 Balanced Performance
BCO 6000 High Performance


intel

### BCO-500 SERIES

- Intel® Alder Lake / Intel® Atom® Processors
- Mini Form Factor
- High-Speed I/O Ports and Wireless Connectivity
- Competitive Price and Long Lifetime Support

### BCO-1000 SERIES

- Intel® Alder Lake / Intel® Atom® Processors
- Power Efficient 12W Performance
- Digital and Analog I/O Connectivity
- Competitive Price and Long Lifetime Support

### BCO-3000 SERIES

- Intel® Core Processors
- Powerful 35W Edge Performance
- Rich I/O Ports and M.2 Expansions
- Up to Triple Displays / Triple RJ45 LAN Ports

### BCO-6000 SERIES

- Intel® Core Processors
- Powerful 35W Edge Performance
- Rich I/O Ports and M.2 Expansions
- 2x PCIe Gen 4 Slots with GPU Support







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## BCO-500 SERIES

intel. Alder Lake

NEW

| Model | BCO-500-ADL |
|---|---|
| CPU Support | 12th Gen Intel® IoTG Alder Lake-N N97 Processor<br>Intel® Core™ i3-N305 Processor |
| Memory | 1x 262-Pin DDR5 4800MT/s SODIMM.<br>Max. up to 16GB (Default 8GB) |
| Display | 1x 4K HDMI 1.4b<br>1x 4K DisplayPort 1.4a |
| Storage | 1x M.2 B Key<br>(2242/3042, SATA/PCIe x1, support NVMe/SATA) |
| Expansion | 1x M.2 E Key<br>(2230, PCIe x1, USB 2.0, support Wifi/Bluetooth) |
| I/O | 2x RJ45 (2.5GbE)<br>1x RS-232/422/485<br>1x RS-232<br>4x USB 3.2 Gen 2 (10 Gbps) |
| Power | 3-pin, AT/ATX 12~36V |
| Operating Temp | -10°C to 50°C (12W CPU) |
| Certification | CE, FCC Class A, UL, VCCI, RCM |
| Dimensions (WxDxH) | 225 x 130 x 41 (mm) |



## BCO-1000-ADLN SERIES

MORE

intel. Amston Lake / Alder Lake

NEW

| Model | BCO-1000-ADLN | BCO-1000-ADLN-B_3L |
|---|---|---|
| CPU Support | 12th Gen Intel® IoTG Alder Lake-N N97 Processor | 12th Gen Intel® IoTG Alder Lake-N N97 Processor<br>Intel® Atom® x7835RE Processor |
| Memory | DDR5 4800MT/s SODIMM.<br>Max. up to 16GB (Default 8GB) | |
| Display | 1x 4K DisplayPort 1.4a<br>1x 4K HDMI 1.4b | |
| Storage | 1x Internal 2.5" SATA SSD Bay (7mm or 9mm) | |
| Expansion | 1x M.2 B Key (2242/2280/3042, SATA/PCIe x1, support NVMe/SATA)<br>1x M.2 E Key<br>(2230, PCIe x1 & USB 2.0, support Wifi 6E & BT-5.1) | 1x M.2 B Key (2242/2280/3042, SATA/PCIe x1/ USB3.0 support LTE/4G/5G/Storage Module),<br>1x M.2 E Key (2230, PCIe x1 & USB 2.0, support Wifi 6E & BT-5.1),<br>1x Dual SIM Socket (SIM1/SIM2) |
| I/O | 2x RJ45 (2.5GbE)<br>1x RS-232/422/485<br>1x RS-232<br>2x USB 3.2 Gen2 (10 Gbps)<br>2x USB 3.2 Gen1 (5 Gbps)<br>2x USB 2.0, 8x GPIO<br>Line-in/Line-out/Mic-in | 3x RJ45 (2.5GbE)<br>1x RS-232/422/485<br>1x RS-232<br>2x USB 3.2 Gen1 (5 Gbps)<br>2x USB 2.0<br>8x GPIO<br>Line-in/Line-out/Mic-in |
| Power | 3-pin, AT, ATX 9~36V | 3-pin, AT, ATX 12~36V |
| Operating Temp | 0°C to 50°C | |
| Certification | CE, FCC Class A | UL 62368 Ed.3, CE, FCC Class A |
| Dimensions (WxDxH) | 192 x 140 x 68 (mm) | |




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## BCO-2000 SERIES

MORE

intel. Whiskey Lake

| Model | BCO-2000 |
|---|---|
| CPU Support | 8th Gen Intel® WL-UE Processor, Core™ i5-8365UE or Celeron® 4305UE |
| Memory | 1x 260-Pin DDR4 2400MT/s SODIMM. Max. up to 32GB (Default 8GB) |
| Display | 1x 4K DisplayPort<br>1x 4K HDMI (optional) |
| Storage | 1x Internal 2.5" SATA HDD Bay (support H=9.5mm),<br>1x Internal SATA 7P connector<br>1x mSATA (Shared by 1x Mini PCI Express) |
| Expansion | 2x Full-size Mini PCIe<br>(1x shared by 1x mSATA)<br>1x Internal SIM slot |
| I/O Expansion | 2x I/O Expansion for USB and COM Ports |
| I/O | 2x RJ45 (2.5GbE)<br>2x RS-232/422/485<br>4x USB 3.2 Gen 2 (10 Gbps)<br>2x USB 2.0 header (internal) |
| Power | 3-pin, AT/ATX 12V |
| Operating Temp | -20°C up to 60°C |
| Certification | UL 62368 Ed.3, CE,<br>FCC Class A |
| Dimensions (WxDxH) | 140 x 192 x 61 (mm) |

## BCO-2000-RYZ SERIES

MORE

AMD RYZEN EMBEDDED

| Model | BCO-2000-RYZ-V1605B |
|---|---|
| CPU Support | AMD Ryzen™ Embedded V1605B with Radeon™ Vega 8 Graphics, 3.6 GHz (4 Cores) |
| Memory | 2x 260-pin DDR4 2400MT/s SODIMM.<br>Max. up to 32GB (Default: 8GB, ECC/non-ECC) |
| Display | 1x 4K DisplayPort 1.4, DP++<br>1x 4K HDMI 2.0b |
| Storage | 1x Internal 2.5" SATA HDD Bay (support H=9.5mm)<br>1x M.2 B Key (3042, support SATA) |
| Expansion | 1x Full-Size Mini PCIe<br>1x M.2 B Key (3042/3052, PCIe x1 & USB 3.0, SATA, USIM, Support 4G/5G) |
| I/O Expansion | 2x I/O Expansion for USB and COM Ports |
| I/O | 2x RJ45 (2.5GbE)<br>2x RS-232/422/485<br>2x USB 3.2 Gen 2 (10 Gbps), 4x USB 2.0 (internal) |
| Power | 3-pin, AT/ATX 12V |
| Operating Temp | -20°C to 55°C (25W CPU) |
| Certification | UL 62368 Ed.3, CE, FCC Class A |
| Dimensions (WxDxH) | 140 x 192 x 57.6 (mm) |



## BCO-3000-RPL SERIES

MORE

## BCO-6000-RPL SERIES

MORE

intel. Raptor Lake / Alder Lake

NEW

NEW

| Model | BCO-3000-RPL | BCO-6000-RPL |
|---|---|---|
| CPU Support | 12th/13th/14th Gen Intel® Core™ Processor i3/i5/i7/i9, Pentium, Celeron (35W only) | |
| Memory | 2x DDR4 3200MT/s SODIMM. Max. up to 64GB (Default 8GB) | |
| Display | 2x 4K Dual Mode DisplayPort 1.4a<br>1x 4K HDMI 1.4b | |
| Storage | 1x M.2 M Key<br>(2242/2280, PCIe x4 Gen 3, support Storage/AI Module, Default 128GB) | |
| Expansion | 1x M.2 B Key (3042, PCIe +USB 3.2 Gen 2x1+ USB 2.0, support 5G/4G/LTE Module)<br>1x M.2 E Key (2230, PCIe x1 + USB 2.0, support Wi-Fi 6E & BT-5.1) | |
| PCIe | - | 2x PCIe x8 or 1x PCIe x16<br>(PCIe 4.0, support A2000 GPU) |
| I/O | 2x RS232/422/485, 2x RS485<br>3x RJ45 (2.5GbE)<br>6x USB 3.2 Gen 2 (10 Gbps),<br>2x USB 3.2 Gen 1 (5 Gbps),<br>2x USB 2.0 Type-A | |
| Power | 4-pin, AT, ATX 9~36V | 4-pin, AT, ATX 9~36V<br>24~36VDC for add GPU Card |
| Operating Temp | 0°C to 50°C | |
| Shock & Vibration | With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis)<br>With SSD: 50G half-sin 11ms | |
| Certification | UL 62368 Ed.3, CE, FCC Class A | |
| Dimensions (WxDxH) | 192 x 240 x 69 (mm) | 330 x 240 x 69 (mm) |

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# RCO SERIES
## SUPER-RUGGED INDUSTRIAL COMPUTERS

## 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



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# RCO SERIES

RCO 1000 — Ultra Compact
RCO 3000 — Small Form Factor
RCO 6000 — High Performance


intel

### RCO-1000 SERIES

- 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

### RCO-3000 SERIES

- 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

### RCO-6000 SERIES

- 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

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## RCO-1000-ASL SERIES

Coming Soon

intel. Amston Lake

| Model | RCO-1000-ASL-10 | RCO-1000-ASL-20 | RCO-1000-ASL-30 | RCO-1000-ASL-30-2P |
|---|---|---|---|---|
| CPU | Intel® Atom® x7835RE Processor, 8 cores, 3.6 GHz (12W TDP)<br>Intel® Atom® x7433RE Processor, 8 cores, 3.4 GHz (9W TDP) | | | |
| Memory | 1x 262-pin DDR5 4800MT/s SO-DIMM Max. up to 32GB (Non-ECC) | | | |
| Display | 1x HDMI 1.4b (3840 x 2160), 1x DP (4096 x 2304) | | | |
| Storage | 1x SATA 3.0 6Gb/s, 1x M.2 B Key: 2242/3042/3052 for AI/Storage/4G/5G | | | |
| Expansion | 1x M.2 E Key: 2230 (PCIe x1, USB 2.0), 1x M.2 B Key: 3042/3052 for AI/Storage/4G/5G, 2x SIM Socket | | | |
| I/O | 2x RJ45 (2.5 GbE), 2x RS-232/422/485,<br>3x USB 3.2, 1x USB 2.0,<br>2x CAN, 1x I2C 3-pin,<br>1x Power Ignition Switch | | | 2x 2.5 GbE, 2x RS-232/422/485, 3x USB 3.2, 1x USB 2.0, 2x CAN, 1x I2C 3-pin, 2x GbE RJ45 (PoE), 1x Power Ignition Switch |
| EDGEBoost I/O Expansion | 1x EDGEBoost I/O | 2x EDGEBoost I/O | 3x EDGEBoost I/O | 3x EDGEBoost I/O |
| OOB | 1x RJ45 (Out-of-band Management module) | | | |
| Power | 3-pin, AT/ATX 9~36VDC | | | |
| Operating Temp | -40°C to 70°C | | | |
| Dimensions (WxDxH) | 150 x 105 x 49 (mm) | 150 x 105 x 65 (mm) | 150 x 105 x 83 (mm) | |

## RCO-1000-EHL SERIES

MORE

intel. Elkhart Lake

| Model | RCO-1000-EHL-10 | RCO-1000-EHL-20 | RCO-1000-EHL-30 | RCO-1000-EHL-30-2P |
|---|---|---|---|---|
| CPU Support | Intel® Atom® x6425E Processor (Up to 12W TDP) | | | |
| Memory | 1x 260-pin DDR4 SO-DIMM. Max. up to 32GB | | | |
| Display | 2x DisplayPort 1.4, DP++ (4096 x 2160@60Hz) | | | |
| Storage | 1x Internal 2.5" SATA SSD Bay (support H=9.5 mm) | | | |
| Expansion | 1x Full-size Mini PCIe, 2x External SIM socket, 1x Universal I/O Bracket | | | |
| I/O | 2x 2.5 GbE, 3x USB 3.2, 2x RS-232/422/485, 2x CAN | | | 2x RJ45 (PoE) |
| EDGEBoost I/O Expansion | 1x EDGEBoost I/O | 2x EDGEBoost I/O | 3x EDGEBoost I/O | 3x EDGEBoost I/O |
| Power | 3-pin, AT/ATX 9~36VDC | | | |
| Operating Temp | -40°C to 70°C | | | -40°C to 50°C |
| Shock & Vibration | With SSD: 50G & 5 Grms (1 Grms with HDD) | | | |
| Certification | UL 62368 Ed. 3, CE, FCC Class A | | | CE, FCC Class A |
| Dimensions (WxDxH) | 150 x 105 x 49 (mm) | 150 x 105 x 65 (mm) | 150 x 105 x 83 (mm) | |

## RCO-3000-RPL SERIES

MORE

intel. Raptor Lake / Alder Lake

EMC Conformity EN50155 & EN50121-3-2

| Model | RCO-3000-RPL |
|---|---|
| CPU Support | 12th/13th/14th Gen Intel® RPL S / ADL Processor i3/i5/i7/i9 (LGA 1700, 35W TDP) |
| Memory | 1x DDR5 4800/5600MHz SODIMM. Max. up to 32GB |
| Display | 4x DisplayPort (1x DP Port Co-layout HDMI Connector) |
| Storage | 2x 2.5" SATA drive bay with RAID 0, 1, 5 support (1x internal, 1x hot-swappable) |
| Expansion | 2x M.2 B key Type: 2242/3042/3052,<br>1x M.2 B key Type: 2242/3042/3052, 1x M.2 E key slot (2230) |
| I/O | 2x RJ45 (2.5 GbE), 5x RS-232/422/485 (2x internal),<br>6x USB 3.2 Gen 2, 16x isolated digital I/O, 1x Power Switch |
| EDGEBoost I/O Expansion | 1x EDGEBoost I/O |
| OOB | 1x RJ45 (optional OOB Management module) |
| SIM Slot | 1x External Standard SIM socket, 1x External Dual Nano SIM socket |
| Power | 9~48 VDC, AT/ATX Select, 3-pin Terminal Block |
| Operating Temp | -25°C to 70°C |
| Shock & Vibration | With SSD: 50G & 5 Grms |
| Dimensions (WxDxH) | 192 x 227 x 60.3 (mm) |

## RCO-3000-CML SERIES

MORE

intel. Comet Lake S

EMC Conformity EN50155 & EN50121-3-2

| Model | RCO-3000-CML |
|---|---|
| CPU Support | 10th Gen Intel® CML S Processor i3/i5/i7/i9 (LGA 1200, 35W TDP) |
| Memory | 2x 260-Pin DDR4 2666/2933MHz SO-DIMM. Max. up to 64GB (ECC and Non-ECC) |
| Display | 3x DisplayPort (1x DP Port Co-layout HDMI Connector) |
| Storage | 2x 2.5" SATA SSD bay with RAID 0, 1, 5 support (1x internal, 1x hot-swappable), 1x mSATA |
| Expansion | 1x Full-size mini PCIe, 1x M.2 E Key: 2230 (PCIe x1, USB 2.0)<br>1x M.2 B Key: 2242/3042/3052 for AI/NVMe/4G/5G module |
| I/O | 2x RJ45 (2.5 GbE & 1 GbE), 5x RS-232/422/485 (2x internal),<br>6x USB 3.2 Gen 2 (10 Gbps), 16x isolated digital I/O, 1x Line-out |
| EDGEBoost I/O Expansion | 1x EDGEBoost I/O |
| SIM Slot | 2x External Standard SIM socket |
| Power | 3-pin, AT/ATX 9~48 VDC |
| Operating Temp | -25°C to 70°C |
| Shock & Vibration | With SSD: 50G & 5 Grms |
| Dimensions (WxDxH) | 192 x 227 x 60.3 (mm) |

HIGH-PERFORMANCE INDUSTRIAL COMPUTER



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# RCO-6000-CML SERIES

MORE

intel. Comet Lake S

| Model | RCO-6000-CML | RCO-6000-CML-2C-2PWR | RCO-6000-CML-2C-4B7M |
|---|---|---|---|
| CPU | 10th Gen Intel® CML S Processor i3/i5/i7/i9/Xeon® (LGA 1200, 35W/65W TDP) | | |
| Memory | 2x 260-Pin DDR4 2666/2933MHz SO-DIMM. Max. up to 64GB (ECC and Non-ECC) | | |
| Display | 2x DisplayPort, DP++ (4096 x 2304) 1x DVI-I (1920 x 1200) | | |
| Storage | 3x 2.5" SATA SSD bay with RAID 0, 1, 5 support (1x internal, 2x hot-swappable) | | 7x 2.5" SATA SSD bay with RAID 0, 1, 5, 10 (1x internal, 6x hot-swappable) |
| I/O | 2x CAN, 2x RJ45 (GbE), 6x USB 3.2 Gen 2 (10 Gbps), 3x USB 3.2 Gen 1 (1x internal), 2x USB 2.0 header (internal), 1x Mic-in, 1x Line-out 8x RS-232/422/485 (6x internal), 16x isolated digital I/O | | |
| EDGEBoost I/O Expansion | 2x EDGEBoost I/O | | |
| Expansion | 1x M.2 E Key: 2230 (PCIe x1, USB 2.0) 2x Full-size Mini PCIe for Cellular/Wifi/BT | 1x M.2 E Key: 2230 (PCIe x1, USB 2.0) 2x Full-size Mini PCIe for Cellular/Wifi/BT 2x PCIe x16 or 1x PCIe x16, 1x PCI | |
| SIM slot | 2x External Standard SIM socket | | |
| Power | 5-pin, AT/ATX 9~48 VDC | 2x Power Input, AT/ATX Select 5-pin, 9~48 VDC 4-pin, 12~48 VDC (GPU Expansion) | 5-pin, AT/ATX 9~48 VDC |
| Operating Temp | -25°C to 70°C (35W/65W CPU) | | |
| Certification | UL 62368 Ed. 3 & CE, FCC Class A | | |
| Shock & Vibration | With SSD: 50G & 5 Grms (1 Grms with HDD) | With SSD: 20G & 3 Grms (1 Grms with HDD) | With SSD: 50G & 5 Grms (1 Grms with HDD) |
| Dimensions (WxDxH) | 240 x 261 x 79 (mm) | 240 x 261 x 126.8 (mm) | |

# RCO-6000-RPL SERIES

MORE

intel. Raptor Lake / Alder Lake

| Model | RCO-6000-RPL | RCO-6000-RPL-8NS | RCO-6000-RPL-4N-A2000 |
|---|---|---|---|
| CPU | 12th/13th/14th Gen Intel® RPL & ADL Processor i3/i5/i7/i9 (LGA 1700, 35W/65W TDP) | | |
| Memory | 2x 262-Pin DDR5 4800/5600MHz SO-DIMM. Max. up to 64GB (ECC and Non-ECC) | | |
| Display | 2x DisplayPort (Up to 7680 x 4320), 1x DVI-I (1920 x 1200) | | |
| Storage | 2x 2.5" SATA SSD bay with RAID 0, 1 support (1x internal, 1x hot-swappable) | 2x 2.5" SATA SSD bay (1x internal, 1x hot-swappable), 8x 2.5" NVMe SSD bay (hot-swappable), Support RAID 0, 1, 5, 10 | 2x 2.5" SATA SSD bay (1x internal, 1x hot-swappable), 4x 2.5" NVMe SSD bay (hot-swappable), Support RAID 0, 1, 5 |
| Expansion | 1x M.2 E Key: 2230 for Wifi/BT, 1x M.2 B Key: 2242/3042/3052 for AI/Storage/Cellular 1x Full-size Mini PCIe for Cellular | | |
| GPU | - | | NVIDIA RTX A2000 12GB Other GPU options: NVIDIA RTX 2000 ADA 16GB NVIDIA RTX 4000 SFF ADA 20GB |
| I/O | 2x RJ45 (2.5 GbE), 6x RS-232/422/485 (4x internal), 8x USB 3.2 Gen 2, 1x USB 3.2 Gen 1 (internal), 2x USB 2.0 (internal), 16x isolated digital I/O, 1x Line-out | | |
| EDGEBoost I/O Expansion | Up to 2x EDGEBoost I/O | | |
| SIM slot | 2x External SIM socket | | |
| Power | 5-pin, AT/ATX 9~48 VDC | AT/ATX, 5-pin, 9~48 VDC, 4-pin, 12~48 VDC for EDGEBoost Node | |
| Operating Temp | -25°C to 70°C (35W CPU) -25°C to 60°C (65W CPU) | -25°C to 60°C (35W/65W CPU) Optional External Fan Kit: Recommended for i9 (CPU/65W) | -25°C to 45°C (35W/65W CPU) Optional External Fan Kit: Recommended for i9 (CPU/65W) |
| Certification | UL 62368 Ed. 3 & CE, FCC Class A | | |
| Shock & Vibration | With SSD: 50G & 5 Grms (1 Grms with HDD) | | With SSD: 20G & 3 Grms (1 Grms with HDD) |
| Dimensions (WxDxH) | 240 x 261 x 79 (mm) | 240 x 261 x 166.9 (mm) | 240 x 261 x 166.9 (mm) |

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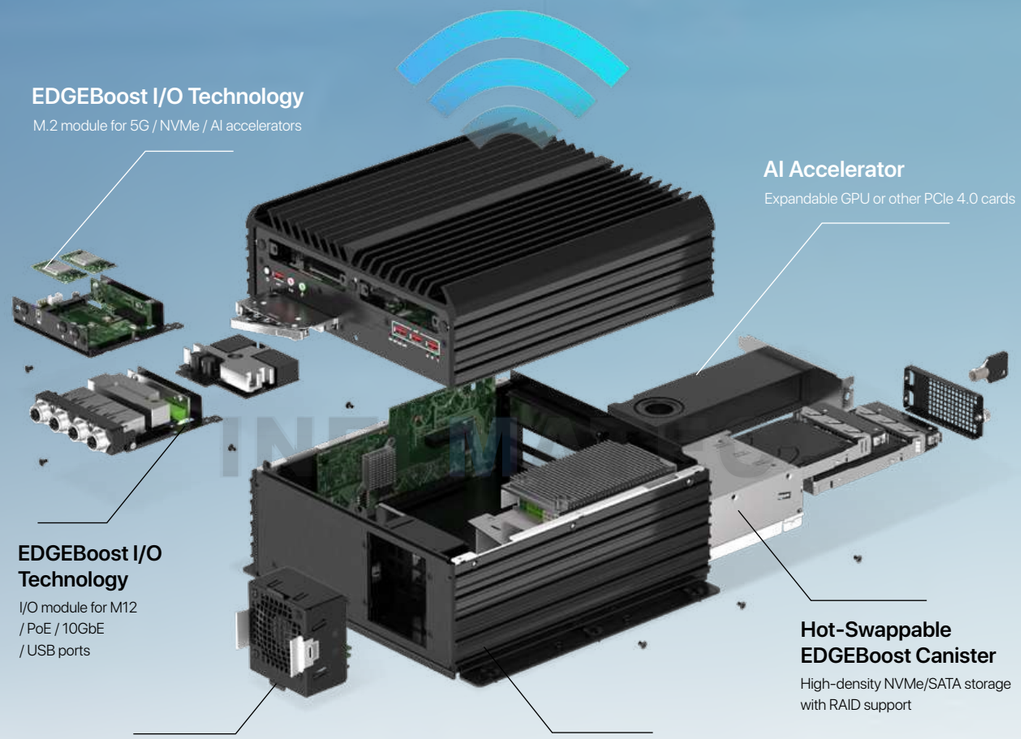
# EDGEBoost
## TECHNOLOGIES




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



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# EDGEBoost Nodes

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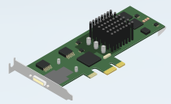
## EDGE AI PERFORMANCE ACCELERATORS MODULES

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 | RAM | CUDA Cores | TDP | Display | Interface | Active Cooling | Slots |
|---|---|---|---|---|---|---|---|
| NVIDIA T1000 | 4G | 896 | 50 | 4x mDP | PCIe 3.0 x16 | Yes | 1 |
| NVIDIA RTX A2000 | 12G | 3328 | 70 | 4x mDP | PCIe 4.0 x16 | Yes | 2 |
| NVIDIA RTX 2000 ADA | 16G | 2816 | 70 | 4x mDP | PCIe 4.0 x8 | Yes | 2 |
| NVIDIA RTX 4000 SFF | 20G | 6144 | 70 | 4x mDP | PCIe 4.0 x16 | Yes | 2 |

*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.

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# EDGEBoost Nodes

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## 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® 12th/13th/14th Gen ADL/RPL CPU<br>1x Hotswap SATA SSD (7mm)<br>1x Internal SATA SSD (9mm)<br>1x M.2 B Key, 1x M.2 E Key, 1x mPCIe<br>2x EDGEBoost I/O Slots |  | • Intel® 10th Gen CML CPU<br>2x Hotswap SATA SSD (7mm)<br>1x Internal SATA SSD (9mm)<br>1x M.2 E Key, 2x mPCIe<br>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)<br>1x PCIe x16 (Gen 4), 1x PCIe x1 (Gen 3) or<br>1x PCIe x16 (Gen 4), 1x PCIe x8 (Gen 4)<br>• **EBND-2-EXP** (RCO-6000-CML)<br>PCIe x16, PCI Expansions |  | • **EBND-2-PWR-G4** (RCO-6000-RPL)<br>1x PCIe x16 (Gen 4), 1x PCIe x1 (Gen 3) or<br>2x PCIe x8 (Gen 4)<br>12~48VDC Power Supply (280W)<br>• **EBND-2-PWR** (RCO-6000-CML)<br>PCIe x16, PCI Expansions<br>12~48VDC Power Supply (280W) |
| **Storages** | | | |
| **SATA Storage Series** | | | |
|  | • **EBND-2-2SATA**<br>2x Hot-Swap 2.5" SATA Drives (15mm)<br>RAID 0, 1, 5, 10 |  | • **EBND-2-4SATA**<br>4x Hot-Swap 2.5" SATA Drives (7mm)<br>RAID 0, 1, 5, 10 |
| **NVMe Series** | | | |
|  | • **EBND-2-2NVME-G4** (RCO-6000-RPL only)<br>2x Hot-Swap 2.5" NVMe SSD Bay (15mm)<br>PCIe Gen 4 Expansion |  | • **EBND-8NVME-S**<br>8x Hot-Swap 2.5" U.2 NVMe Drives (7mm)<br>RAID 0, 1, 5, 10 |
|  | • **EBND-4NVME-S**<br>4x Hot-Swap 2.5" U.2 NVMe Drives (15mm)<br>RAID 0, 1, 5, 10 |  | • **EBND-4NVME-H**<br>4x Hot-Swap 2.5" U.2 NVME Drives (15mm)<br>Hardware RAID 0, 1, 5, 6, 10 |
| **Storages + GPU** | | | |
| **NVMe and GPU Series** | | | |
|  | • **EBND-4NVME-GPU**<br>1x GPU Expansion<br>4x Hot-Swap 2.5" U.2 NVMe Drives (7mm) |  | • **EBND-2NVME-GPU**<br>1x GPU Expansion<br>2x Hot-Swap 2.5" U.2 NVMe Drives (15mm) |
|  | • **EBND-4N-1E**<br>1x PCIe x16, 1x PCIe x1 Slots<br>Hardware RAID 0, 1, 5, 10<br>4x Hot-Swap 2.5" U.2 NVMe Drives (7mm) | | |



# EDGEBoost I/O

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## Flexible I/O and M.2 Expansion Modules

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.

## Compatible Industrial Computers

**Industrial Mini Computers**

**RCO-1000** Series
Super-Rugged Mini

**Edge AI Industrial Computers**

**RCO-3000** Series
Super-Rugged SFF

**RCO-6000** Series
Super-Rugged EDGE AI

**JCO-6000** Series
Jetson Edge AI Industrial

**ACO-6000** Series
Railway & In-Vehicle

## EBIO Modules for Industrial Mini Computers

| up to **1x** | up to **1x** | up to **1x** | up to **2x** |
|---|---|---|---|
| **1x DP + 1x DIO** | **1x HDMI** | **4x USB 2.0** | **2x COM** |

| Digital & Analog Digital and Analog EBIO Modules | | | |
|---|---|---|---|
| **EBIO-DP-DIO** | **EBIO-HDMI** | **EBIO-4USB** | **EBIO-2COM** |
| • 1x DP (4K UHD)<br>• 1x DIO (4 in / 4 out, Isolated) | • 1x HDMI Port (Full-HD) | • 4x USB 2.0, Type A Ports (with USB hub) | • 2x COM Ports (RS-232/422/485) |

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# EBIO Modules for

## Edge AI Industrial Computers

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## USB Interface Modules

| EBIO-4U3 | EBIO-4U3-J | EBIO-4U3V-J |
|---|---|---|
| • 4x USB 3.0, Type-A Ports | | • 4x USB 3.2 Gen 1 (5 Gbps, 900mA)<br>• Type-A Locking Ports |

## Connectivity & Network Modules

| EBIO-4ETH | EBIO-4ETH-J | EBIO-4ETH-M12 | EBIO-4ETH-M12-J |
|---|---|---|---|
| • 4x 1GbE LAN, RJ45 Port<br>• Intel® Ethernet Controller I350<br>• PCIe x1 Gold Fingers Interface (PCIe 3.0 x4 Performance)<br>• Support Power over Ethernet by an optional PoE module | | • 4x 1GbE LAN, M12 Port X-code 8-Pin<br>• Intel® Ethernet Controller I350<br>• PCIe x1 Gold Fingers Interface (PCIe 3.0 x4 Performance)<br>• 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 |
|---|---|---|---|
| • 2x 10 GbE LAN, RJ45 Ports<br>• Intel® Ethernet Controller X710-AT2<br>• PCIe x1 Gold Fingers Interface (PCIe 3.0 x4 Performance) | | • RJ45 Hardware-Based Features: Out-of-Band and In-Band<br>• Power Control & Management<br>• OOB Cloud Serial Console<br>Optional:<br>• 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<br>• Supports 4G/5G module<br>• 2x SIM slot, 1x SIM Switch<br>• 1x Dedicated Heat block<br>• Occupied 2x Universal Slots | • 2x M.2 B-Key 2242/3042/3052<br>• Supports 4G/5G/AI/NVMe modules<br>• 1x Mini SIM Slot (on-board)<br>• 1x Dedicated Heat block<br>• 3x Antenna Holes | • 1x M.2 M-Key 2242/2260<br>• Supports AI/NVMe module<br>• 1x Dedicated Heat block | |





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# EDGEBoost I/O Series

## Compatible Industrial Computers

MORE

Super-Rugged Mini Computers

| EBIO Modules | RCO-1000 Series |
|---|---|
| EBIO-HDMI | • |
| EBIO-DP-DIO | • |
| EBIO-2COM | • |
| EBIO-4U3 | • |

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-OOB | • | | • |
| EBIO-M2BK | | • | • |
| EBIO-2M2BK | • | • | • |
| EBIO-M2MK | • | • | • |

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-4U3V-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 **12x** PoE/GigE **10x** USB Vision

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# 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

BC Best Choice AWARD

c UL us

EMC Conformity EN50155 & EN50121-3-2

| Model | ECO-1000 |
|---|---|
| Capacity | ECO-1000-8S: 8x 370 Farads Supercapacitors<br>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)<br>Available Discharge Mode: 12 or 24V |
| Output Power | ECO-1000-8S: Max.100W output<br>ECO-1000-16S: Max.200W output |
| Output Connector | 3-pin Terminal Block (V+, GND) |
| I/O | 1x RS-232,<br>1x USB Type A,<br>2x DI + 2x DO with isolation<br>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 | -25°C to 55°C |
| Shock & Vibration | 20 G; 5 Grms |
| Certification | CE, FCC Class A, UL 62368-1 Ed. 3<br>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) |

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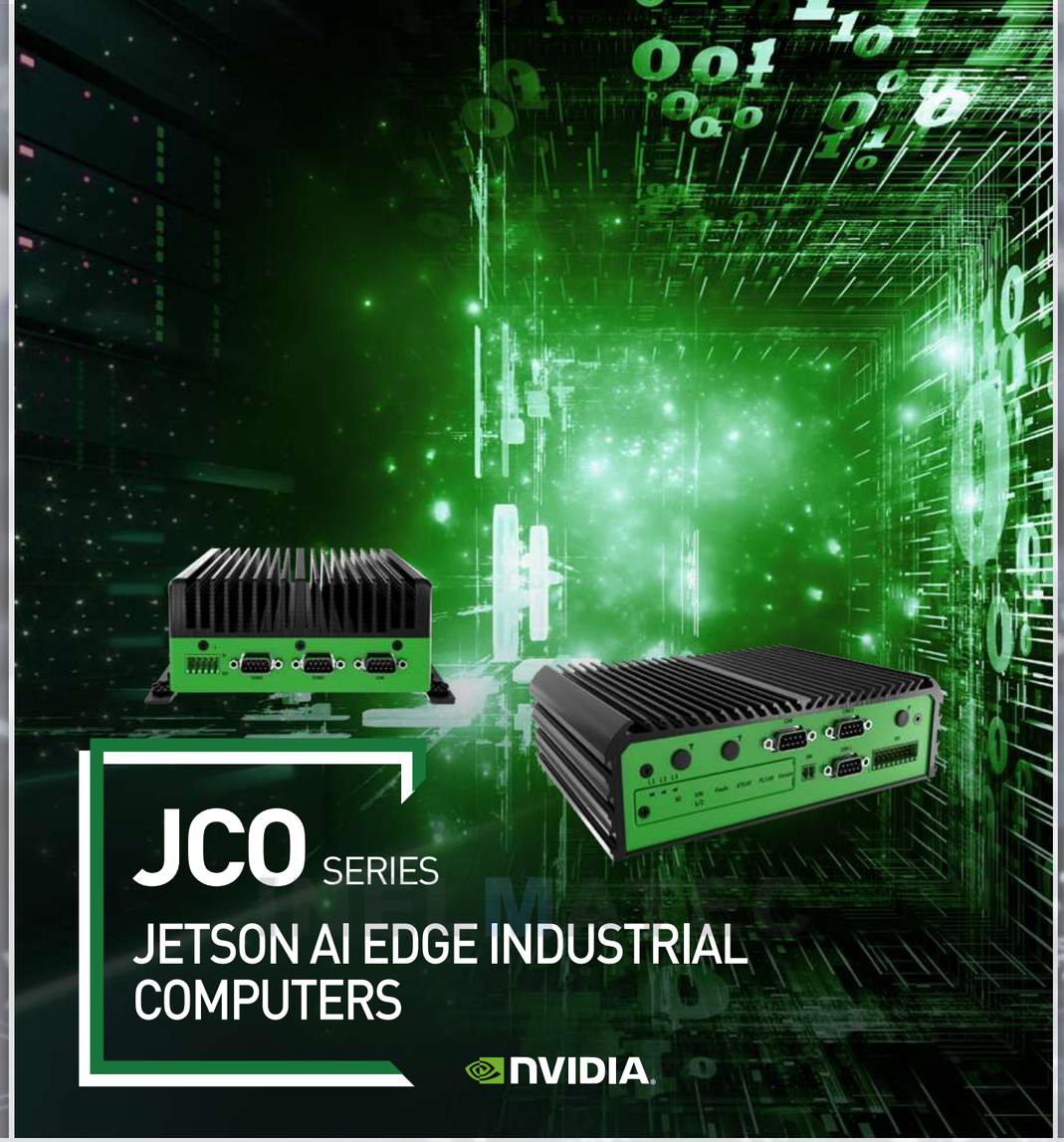

# JCO SERIES

## JETSON AI EDGE INDUSTRIAL COMPUTERS

NVIDIA

## 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



INELMATEC

# JCO SERIES

JCO 1000 Ultra Compact

JCO 3000 Small Form Factor

JCO 6000 High Performance


NVIDIA

### JCO-1000-ORN SERIES

- Jetson Orin Nano Super 4GB/8GB with 7W-25W Power Options
- Jetson Orin NX 8GB/16GB with 10W-25W Power Options
- 20-100 TOPS of AI Performance
- High-Speed I/O and Wireless Connectivity

### JCO-3000-ORN SERIES

- Jetson Orin Nano Super 4GB/8GB with 7W-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

### JCO-6000-ORN SERIES

- 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/4x EDGEBoost I/O Expansions

NVIDIA JETSON ORIN INDUSTRIAL COMPUTER



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## JCO-1000-ORN SERIES

MORE

## JCO-3000-ORN SERIES

MORE




| Model | JCO-1000-ORN-A | JCO-3000-ORN-A | JCO-3000-ORN-B |
|---|---|---|---|
| CPU Support | NVIDIA Jetson Orin™ NX 16GB/8GB<br>NVIDIA Jetson Orin™ Nano Super 8GB/4GB | | |
| TOPS | Orin NX: 70-100 TOPS<br>Orin Nano: 20- 67 TOPS | | |
| Display | 1x 4K HDMI 2.0 | 1x 2K HDMI | 1x 4K HDMI |
| Storage | 1x M.2 (M Key, 2242/2280, PCIe x4, NVMe) (Default 128GB)<br>1x Micro 2.0 SD Slot | 1x M.2 (M Key, 2242/2280, PCIe x4, NVMe) (Default 128GB) | |
| Expansion | 1x M.2 B Key (2242/3042/3052, PCIe x1, USB 3.2 Gen1, support 4G/5G Module)<br>1x M.2 E Key (2230, PCIe x1, USB 2.0, support Wi-Fi/Bluetooth)<br>1x External Dual Nano SIM socket | 1x M.2 B Key (3042/3052, USB 3.2 Gen1, support 4G/5G)<br>1x M.2 E Key (2230, PCIe x1, USB 2.0, support Wi-Fi/Bluetooth)<br>1x External Micro SIM Socket | 1x M.2 B Key (3042/3052, USB 3.2 Gen1, support 4G/5G)<br>1x M.2 E Key (2230, PCIe x1, USB 2.0, support Wi-Fi/Bluetooth)<br>1x External Dual Nano SIM socket |
| I/O | 1x RJ45 (2.5 GbE)<br>1x CAN 2.0 B, 2x RS-232/422/485,<br>4x USB 3.2 Gen 2 (10 Gbps),<br>1x USB Type-C (Flash),<br>1x Micro USB (Console) | 2x RJ45 (1GbE)<br>1x CAN 2.0 A,<br>2x RS-232/485,<br>4x USB 3.0,<br>1x Micro USB (OTG) | 1x CAN 2.0 B, 2x RS-232/422/485<br>4x RJ45 (Optional, PoE+ 120W Module),<br>4x USB 3.2 Gen 2 (10 Gbps),<br>1x USB Type-C (Flash),<br>1x Micro USB (Console) |
| OOB | 1x RJ45 (Optional OOB Management Module) | | |
| Power | 3-pin, AT, ATX 9~36V | 3-pin, AT 12~24V | 3-pin, AT/ATX 9~36V<br>12V: PoE Power Budget Supports Up to 60W<br>24V: PoE Power Budget Supports Up to 120W |
| Operating Temp | -20°C to 55°C (25W, NX Module)<br>-20°C to 60°C (15W, Nano Module) | | |
| Shock & Vibration | With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis)<br>With SSD: 50G half-sin 11ms | | |
| Certification | UL 62368 Ed. 3, CE, FCC Class B | UL 62368 Ed.3, CE, FCC Class A | UL 62368 Ed. 3,<br>CE, FCC Class A, E mark |
| Operating System | Linux Ubuntu 20.04 with JetPack 6.x SDK | | |
| Dimensions (WxDxH) | 150 x 105 x 61 (mm) | 192 x 140 x 58 (mm) | |



## JCO-6000-ORN SERIES

MORE

EMC Conformity
EN50155 & EN50121-3-2



| Model | JCO-6000-ORN-A | JCO-6000-ORN-B |
|---|---|---|
| CPU Support | NVIDIA Jetson AGX Orin™ AI Computer with 8-core/12-core Arm® Cortex®-A78AE v8.2 64-bit CPU | |
| Memory | AGX Orin 32 GB/64 GB LPDDR5 @ 3200 MHz on SOM | |
| TOPS | 200 TOPS/40W<br>275 TOPS/60W | |
| Display | 1x 4K HDMI 2.0 | |
| Storage | 1x eMMC 5.1, 64 GB,<br>1x M.2 (M Key, 2280, PCIe x4, support NVMe) (Default 128GB) | |
| Expansion | 1x M.2 (B Key, 3042/3052, USB 3.2 Gen 2, support 4G/5G Module)<br>1x M.2 (E Key, 2230, PCIe x1, USB 2.0, support Wi-Fi/Bluetooth)<br>1x Micro SD Socket,<br>2x Micro SIM Sockets | |
| I/O Expansion | 2x I/O Expansion<br>for USB/LAN/M12/NVMe Storage | 4x I/O Expansion<br>for USB/LAN/M12/NVMe Storage |
| PoE | By Optional PoE Power Module,<br>Support up to 4x RJ45/M12 LAN Module | By Optional PoE Power Module,<br>Support up to 12x RJ45/M12 LAN Module |
| I/O | 2x CAN, 2x RS-232/422/485, 2x RJ45 (1GbE, 10GbE),<br>1x USB 3.2 Gen 2 (10 Gbps), 1x USB 2.0 (Flash)<br>1x USB Type C (Console), 8 in / 8 out (Isolated) to I/O Part | |
| OOB | 1x RJ45 (OOB Management Module, Optional) | |
| Power | 3-pin, AT, ATX 9~48V or 48~110V (Optional) | |
| Operating Temp | -20°C to 55°C | |
| Shock & Vibration | With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis)<br>With SSD: 50G half-sin 11ms | |
| Certification | CE, FCC Class A, UL 62368 Ed. 3,<br>E-Mark, EMC EN50155 | |
| Operating System | Linux Ubuntu 20.04<br>with JetPack 6.x SDK | |
| Dimensions (WxDxH) | 270 x 190 x 95 (mm) | |

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# 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 SERIES

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. Amston Lake

NEW

| Model | DCO-1000-ASL |
|---|---|
| CPU Support | Intel® Atom® x7433RE Processor |
| Memory | 1x 262-Pin DDR5 4800MT/s SODIMM. Max. up to 16GB ( Default 8GB, ECC/Non-ECC) |
| Display | 2x 4K DisplayPort 1.4, DP |
| Storage | 1x M.2 (B Key, 3042/3052, PCIe x2), Default 128GB |
| Expansion | 1x M.2 B Key (3042/3052, USB 3.2 Gen2 + USB 2.0 for 4G/5G Module only)<br>1x M.2 E Key (2230, PCIe x1 + USB 2.0, support Wifi/Bluetooth)<br>1x Dual Nano SIM Socket |
| I/O | 4x RJ45 (2.5GbE)<br>2x RS-232/422/485<br>2x USB 3.2 Gen 2 (10 Gbps), 2x USB 2.0 |
| OOB | 1x RJ45 (OOB Management Module, Optional) |
| Power | 3-pin, AT, ATX 9~36V |
| Operating Temp | -40°C to 55°C |
| Shock & Vibration | With SSD: 20G, half sine, 11ms<br>Wall Mounting with NVMe SSD: 5 Grms, 5 - 500 Hz, 0.5hr/axis<br>DIN Rail Mounting with NVMe SSD: 5 Grms, 5 - 500 Hz, 0.5hr/axis |
| Certification | UL 61010-2-201, CE, FCC Class A |
| Operating System | Windows 10, Windows 11, Linux kernel 5.X |
| Dimensions (WxDxH) | 150 x 105 x 49 (mm) |
| Mounting Options | DIN-Rail Mounting<br>Wall Mounting (Optional) |

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# WCO SERIES

## IP68/IP69K WATERPROOF INDUSTRIAL COMPUTERS

## DELIVER EDGE INTELLIGENCE AMID WATER AND DUST EXPOSURES

The WCO Series unifies advanced CPU compute capabilities, I/O expandability, and AI acceleration for dynamic industrial deployments. The WCO Series is designed to fit into a rugged industrial environment where dust and water resistance are a must. Equipped with fanless design and IP68/IP69K ratings, the WCO series expands the limitation of regular embedded systems in extremely harsh deployments.

- IP68/IP69K Rating
- Wide Range Voltage 9-36V or 48-110V
- Scalable M12 Ports
- High-Quality Compact Construction






## WCO-3000-EHL SERIES

MORE

intel.
Elkhart Lake

| Model | WCO-3000-EHL |
|---|---|
| CPU | Intel® Atom® Processor x6425E, Quad Core, 1.5 MB Cache, 1.8 GHz, 12W TDP |
| Memory | 1x 260-Pin DDR4 2400/2667/3200MT/s SODIMM.<br>Max. up to 32 GB (Non-ECC) |
| Display | 1x DisplayPort 1.4, DP++ (4K DCI@60Hz) or 1x HDMI (Optional),<br>Single Display, Waterproof |
| I/O | 2x LAN by M12 X-Code (1x 1GbE, 1x 2.5GbE)<br>2x USB 3.2 Gen 2 Type A (10Gbps, Waterproof)<br>1x RS-232/422/485 by M12 A-Code<br>2x M12 Waterproof Cover for PoE or COM Expansion |
| Storage | 1x mSATA shared by 1x Mini PCI Express<br>1x Internal 2.5" SATA HDD Bay |
| Expansion | 1x M.2 (B Key, 3042/3052, PCIe x1 + USB 3.2 Gen2, Support 4G/5G/Hailo AI Module),<br>2x Internal SIM socket,<br>1x Full-size Mini PCIe |
| Power | AT/ATX, DC IN 9-36 V, DC IN 48-110 V (Optional)<br>M12 S-code 4-pin |
| Certification | IP68, IP69K, CE, FCC Class A |
| Operating Temperature | -40 °C to 60 °C |
| TPM | TPM 2.0 |
| 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))

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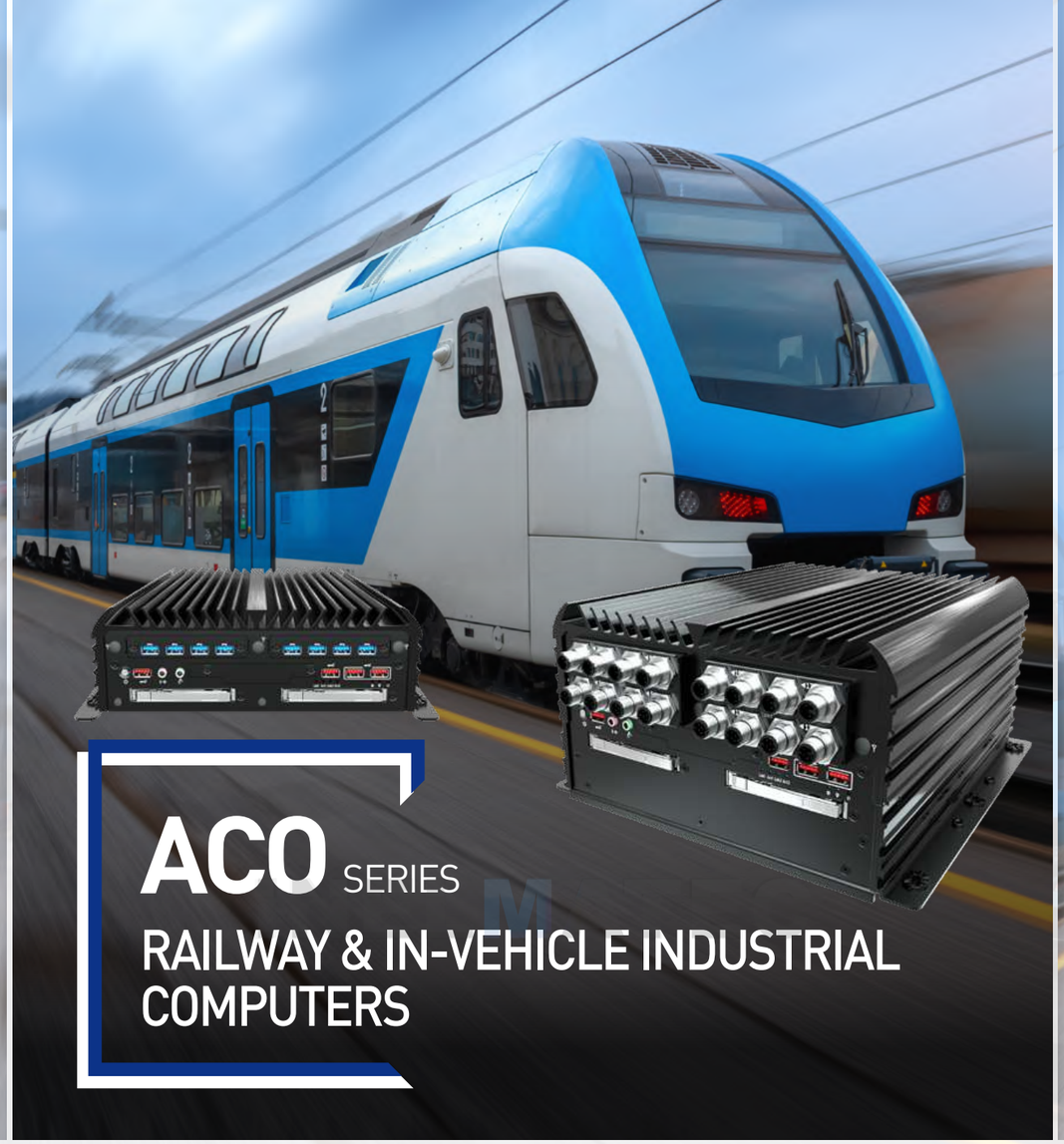

# ACO SERIES
# RAILWAY & IN-VEHICLE INDUSTRIAL COMPUTERS

## 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 highperformance 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, 24V~72V and
48~110V

MIL-STD-810G
Compliant
Method 514 & 517






## ACO-6000-RPL SERIES

intel.
Raptor Lake / Alder Lake


NEW


NEW

| Model | ACO-6000-RPL | ACO-6000-RPL-1E |
|---|---|---|
| CPU | Support 12th/13th/14th Gen Intel® RPL & ADL Processor i3/i5/i7/i9 (LGA 1700, 65W/35W TDP) | |
| Memory | 2x 262-Pin DDR5 4800/5600MHz SO-DIMM. Max. up to 64GB (ECC and Non-ECC) | |
| Storage | 2x 2.5" SATA drive bay with RAID 0, 1 support (1x internal; 1x hot-swappable) | |
| Display | 2x DisplayPort (Up to 8K), 1x DVI-I (1920 x 1200) | |
| I/O | 2x RJ45 (2.5GbE), 6x RS-232/422/485 (2x Rear, 4x Internal), 8x USB 3.2 Gen 2 (10 Gbps), 1x USB 3.0 (5 Gbps, Internal), 2x USB 2.0 (internal), 1x 8-in/8-out DIO (Isolated) | |
| OOB | 1x RJ45 (optional OOB Management module) | |
| Expansion | 1x Full-size mPCIe (shared by 1x mSATA), 2x External SIM socket (mPCIe attached) 1x M.2 B Key (PCIe x2 or PCIe x1 & USB 3.2 Gen1) for AI/Storage/4G/5G 1x M.2 E Key (2230, PCIe x1, USB 2.0) for Wi-Fi/BT | |
| Power | 9~48VDC (Default); 24V to 72V (Optional); 48~110VDC (Optional) OVP (Over Voltage Protection); OCP (Over Current Protection); Power Ignition Management | |
| Certification | FULL EN50155 Certified & EN45545-2 (Fire & Smoke Protection), CE, FCC Class A, E-Mark, UL 62368 Ed. 3 | |
| Temperature | -25°C up to 70°C (35W/65W CPU) | |
| Shock & Vibration | 50G Shock & 5Grms Vibration Resistant (MIL-STD-810G Compliant) | |
| PCIe Expansion | N/A | 1x PCIe x16 |
| EDGEBoost I/O Expansion | Up to 2x EDGEBoost I/O, Up to 8x M12/RJ45 GbE (Optional PoE, 25.5W for each port) | Up to 4x EDGEBoost I/O, Up to 16x M12/RJ45 GbE (Optional PoE, 25.5W for each port) |

## ACO-6000-CML SERIES

MORE

intel.
Comet Lake S

| Model | ACO-6000-CML | ACO-6000-CML-1E |
|---|---|---|
| CPU | Support 10th Gen Intel® CML S Processor (LGA 1200, 65W/35W TDP), Intel® XEON-W Processors, Intel® Core™ i3 to i9 | |
| Memory | 2x 260-Pin DDR4 2666 /2933MHz SODIMM. Max. up to 64GB (ECC and Non-ECC) | |
| Storage | 3x 2.5" SATA HDD bay with RAID 0, 1, 5 support (1x internal; 2x removable & hot-swappable) | |
| Display | 2x DisplayPort, 1x DVI-I | |
| I/O | 2x RJ45 (GbE), 6x USB 3.2 Gen 2, 3x USB 3.2 Gen 1 (1x internal), 2x USB 2.0 header (internal), 8x RS-232/422/485 (6x internal), 8x DI + 8x DO with isolation | |
| Expansion | 1x M.2 (E Key, PCIe x1, USB 2.0, 2230), 2x Full-size mPCIe, 2x External SIM socket (mPCIe attached) | |
| Power | 9~48VDC; 48~110VDC (Optional) OVP (Over Voltage Protection); OCP (Over Current Protection); Power Ignition Management | |
| Certification | EN50155 EMC, E-Mark, CE, FCC Class A | |
| Temperature | -25°C to 70°C (35W/65W CPU) | |
| Shock & Vibration | 50G Shock & 5Grms Vibration Resistant (MIL-STD-810G Compliant) | |
| PCI & PCIe Expansion | N/A | 1x PCIe x16, 1x PCI (Optional) |
| EDGEBoost I/O Expansion | Up to 2x EDGEBoost I/O, Up to 8x M12/RJ45 GbE (Optional PoE, 25.5W for each port) | Up to 4x EDGEBoost I/O, Up to 16x M12/RJ45 GbE (Optional PoE, 25.5W for each port) |
| Dimensions (WxDxH) | 240 x 261 x 79 (mm) | 240 x 261 x 127 (mm) |

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## 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. Raptor Lake / Alder Lake

| Model | VCO-6000-RPL-3E | VCO-6000-RPL-4E |
|---|---|---|
| CPU Support | 12th/13th/14th Gen Intel® RPL & ADL i3/i5/i7/i9 Processor (LGA 1700, 35W/65W TDP) | |
| System Chipset | Intel® R680E Express Chipset | |
| Memory | 2x 262-Pin DDR5 4800/5600MHz SODIMM.<br>Max. 64GB (Default 8GB), (ECC and Non-ECC) | |
| Storage | 1x Hot-Swappable 2.5" SSD, 1x Internal 2.5" SSD,<br>Optional 4x Hot-Swappable 2.5" NVMe 2.5" SSD | |
| Expansion | 1x M.2 B Key, 1x mPCIe, 2x SIM<br>1x PCIe x16 (Gen4), 2x PCIe x1 (Gen3) | 1x M.2 B Key, 1x mPCIe, 2x SIM<br>2x PCIe x16 (Gen4), 1x PCIe x4 (Gen3) |
| GPU Card Dimension | 310 (L) x 112 (H) mm | |
| I/O | 2x 5K DisplayPort up to 8K), 1x 2K DVI-I<br>2x RJ45 (2.5GbE), 4x USB 3.2 Gen 2 (10 Gbps) | |
| Power | 5-pin, AT, ATX 9~48V, 12~48V (Optional 300W power for GPU Expansion) | |
| Operating Temp | -25°C to 70°C (35W CPU)<br>-25°C to 60°C (65W CPU) | |
| Shock & Vibration | With SSD: 3 Grms (5 - 500 Hz, 0.5 hr/axis)<br>With SSD: 20G half-sin 11ms | |
| Certification | UL 62368 Ed. 3, CE, FCC Class A | |
| Dimensions (WxDxH) | 157 x 340 x 240 (mm) | 177 x 340 x 240 (mm) |

# VCO-6100 SERIES

MORE

intel. Coffee Lake R

| Model | VCO-6122 | VCO-6133 | VCO-6144 | VCO-6155 |
|---|---|---|---|---|
| CPU Support | 8th/9th Gen Intel® CFL-R S i3/i5/i7 Processor (LGA 1151, 35W/65W TDP) | | | |
| Memory | 2x 260-pin DDR4-2400/2666MHz SO-DIMM, up to 64GB (Un-buffered and Non-ECC) | | | |
| Power | 9-48 VDC, AT/ATX Select, 3-pin Terminal Block | | | |
| Operating Temperature | -25°C to 70°C (35W CPU)<br>-25°C to 60°C (65W CPU) | | | |
| PCI & PCI Express | With two PCI or PCIe expansion slot<br>• 1x PCIe x16<br>• 1x PCI | With three PCI or PCIe expansion slot<br>• 1x PCIe x16<br>• 2x PCI | With four PCI or PCIe expansion slot<br>• 2x PCIe x4<br>• 1x PCIe x16 (8-lane)<br>• 1x PCI | With five PCI or PCIe expansion slot<br>• 2x PCIe x4<br>• 1x PCIe x16 (8-Lane)<br>• 2x PCI |
| Dimensions (WxDxH) | 137 x 340 x 240 mm | 157 x 340 x 240 mm | 177 x 340 x 240 mm | 197 x 340 x 240 mm |

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# ACTIVE COOLING INDUSTRIAL COMPUTER FOR INSPECTION & INTELLIGENT COMPUTER VISION

Introducing the KCO-RPL Series, a line of high-performance fanned industrial computers powered by Intel's latest 14th Gen Raptor Lake processor. These ruggedized edge computers deliver extensive scalability and IIoT-centric flexibility for seamless optimization in high-spec deployment applications. Additionally, the KCO-RPL Series provides a number of edge-native features to accommodate and ensure reliable performance at the rugged edge.

- Support Dual GPU
- Rich M.2 and PCIe Expansions
- Internal Flex Power Supply
- Rackmountable Industrial Solution





## KCO SERIES

MORE

intel. Raptor Lake / Alder Lake


NEW


NEW

| Model | KCO-2000-RPL | KCO-3000-RPL |
|---|---|---|
| CPU | 12th/13th/14th Gen Intel® Core™ Processors i3/i5/i7/i9 (LGA 1700, 65W Max TDP) | |
| Memory | 4x DDR4 2133/2400/2666MHz DIMM. Max 128GB | |
| Display | 4x DP++ | |
| Storage | 1x 2.5" SATA Drive Bay (Hot-swappable), 4x SATA 3.0 (6Gb/s) Support RAID 0, 1, 5, 10 | 1x 3.5" SATA HDD drive or 2x 2.5" SSD/HDD, 4x SATA 3.0 (6Gb/s) Support RAID 0, 1, 5, 10 |
| M.2 | 2x M.2 M Key: 2242/2260/2280 (NVMe/SATA, PCIe x4 Gen 4), 1x M.2 E Key: 2230 (PCIe x2 Gen 3, USB 2.0) | |
| PCIe | 1x PCIe x16 Slot (Gen 5), 1x PCIe x16 Slot (Gen 4, 4-lane), 1x PCIe x4 Slot (Gen 4, Open End), 1x PCIe x4 Slot (Gen 3, Open End) | |
| I/O | 2x RS-232, 2x RJ45 (2.5GbE & 1GbE), 6x USB 3.1 Gen 2 (10 Gbps), 1x USB 3.2 Gen 2x2 Type C (20 Gbps), 4x USB 2.0 | 2x RS-232, 2x RJ45 (2.5GbE & 1GbE), 6x USB 3.1 Gen 2 (10 Gbps), 1x USB 3.2 Gen 2x2 Type C (20 Gbps), 4x USB 2.0, 2x USB 3.0 Gen 1 |
| Internal I/O | 4x RS-232, 2x USB 3.0 Gen 1, 8-bit digital I/O, 1x Front panel audio | 4x RS-232, 8-bit digital I/O, 1x Front panel audio |
| Supported GPU | RTX A2000, RTX 2000 ADA, RTX 4000 SFF ADA | RTX A2000, RTX 2000 ADA, RTX 4000 SFF ADA, RTX 4000 ADA, RTX 4500 ADA, RTX 5000 ADA |
| Power | 100~240 AC, Internal 250W Flex Power Supply | 100~240 AC, Internal 500W Flex Power Supply |
| Operating Temp | UL : 0 °C to 40 °C<br>CE/FCC/IC : 0 °C to 50 °C | 0°C to 50°C |
| Certification | CE, FCC Class A, UL 62368-1 Ed. 3 | |
| Dimensions (WxDxH) | 324 x 276 x 89 (mm) | 334 x 300 x 133 (mm) |

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# INDUSTRIAL DISPLAY SYSTEMS

## 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 VIO DISPLAY

### MX SERIES

**VIO MONITOR MODULES**
MONITOR MODULE FOR INDUSTRIAL VIO DISPLAY

## SIO SERIES

**IP68/69K STAINLESS STEEL**
INDUSTRIAL TOUCHSCREEN COMPUTERS



INELMATEC

# BUILT RUGGED. BUILT READY.


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.

| Model | SIO SERIES | VIO SERIES | AIO SERIES | HIO SERIES |
|---|---|---|---|---|
| Ruggedness | Super-Rugged | Rugged | Semi-Rugged | Durable |
| System Configuration | Touchscreen Computer | Touchscreen Computer or Monitor | Touchscreen Computer or Monitor | Touchscreen Computer |
| Processor | • Intel® Alder Lake N97<br>• Intel® Celeron® J1900<br>• Intel® 8th Gen i5 | • Intel® Core™ Ultra 5/7<br>• Intel® 7th Gen i3/i5<br>• Intel® Celeron® J6413<br>• Intel® Celeron® J1900 | • Intel® Core™ Ultra 5/7<br>• Intel® Alder Lake N97<br>• Intel Atom® X7835RE<br>• 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 IP68/69K | Front IP65 | | |
| Built Design | Rugged Stainless-Steel SUS 316 Design | Modular Flexible Design | All In One Simple Design | Industrial Open Frame Design |
| Screen Sizes | 12.1" - 23.8" | 12.1" - 23.8" | 10.1" - 21.5" | |
| Touch Options | PCAP | PCAP/Resistive | PCAP | |
| Optical Bonding | Standard | Optional | - | - |
| Mounting Options | VESA Mount<br>Yoke Mount<br>Panel Mount | VESA Mount<br>Panel Mount | | Open-Frame<br>Wall Mount |
| Shock & Vibration | 20G & 2.4Grms | 20G & 1.5Grms | 20G & 3Grms<br>MIL-STD-810G Method 516.7 & 514.7 Procedure 1 | |
| Certifications | CE, FCC, UL 62368 Ed. 3 | | | CE, FCC |

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# 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 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.

intel. Alder Lake


NEW


NEW


NEW

| Model | HIO-W210-ADL | HIO-W215-ADL | HIO-W221-ADL |
|---|---|---|---|
| CPU Onboard | Intel® Alder Lake N97 Processor (6M Cache, up to 3.60 GHz) | | |
| Memory | DDR5 4800MT/s SODIMM Max.16GB (Default 8GB) | | |
| Graphic Output | 1x DP (4096 x 2304 Real 4K, 60Hz)<br>1x HDMI (3840 x 2160 UHD, 30Hz) | | |
| LAN | 2x RJ45 (2.5 GbE) | | |
| I/O | 4x USB 3.2 Gen 2, 6x USB 2.0 (internal),<br>2x RS-232/422/485 (internal),<br>1x Audio out, 2x Pifa Antenna (optional) | | |
| Storage | 1x M.2 B key (SATA/PCIe x1), 2242/3042/2280 (Default 128GB) | | |
| Expansion | 1x M.2 E Key support Wi-Fi 6e and BT 5.2 | | |
| Power | 9~36 VDC | | |
| Operating Temp | -10°C to 50°C | | |
| Certification | CE, FCC Class A | | |
| LCD Size | 10.1" (16:10) WUXGA | 15.6" (16:9) Full HD | 21.5" (16:9) Full HD |
| Brightness (cd/m2) | 400 nits | 400 nits | 500 nits |
| MTBF | 30,000 Hours | 30,000 Hours | 50,000 Hours |
| Projected Capacitive | 10-point PCAP Touch, 7H/IK07 | | |
| Mounting | Open Frame Mount<br>Wall-mount Bracket (optional) | | |

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## 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 SERIES MORE

## AIO-200-ADL

intel. Amston Lake / Alder Lake

NEW

## AIO-200-ASL

NEW

| Model | AIO-200-ADL | AIO-200-ASL-3L |
|---|---|---|
| LCD Size | 10.1'' (16:10), 15.6'' (16:9), 21.5'' (16:9) | |
| Max. Resolution | Max 1920 x 1080 (Full HD) | |
| Brightness (cd/m²) | Max 500 nits | |
| Viewing Angle (H/V) | Max 89/89/89/89 | |
| MTBF | Max 50,000 Hours | |
| Processor | Intel® Alder lake N97 Processor | Intel® Atom® x7835RE Processor 6M Cache, up to 3.60 GHz, 8 core, 12W<br>Intel® Alder Lake N97 6M Cache, up to 3.60 GHz, 4 Core, 12W |
| Memory | DDR5 4800MT/s SODIMM. Max up to 16GB (Non-ECC), (Default 8GB) | |
| Storage | 1x M.2 B Key (Default 128 GB) | 1x M.2 B Key (2242/2280/3042) for NVMe/4G/5G (Default 128GB),<br>1x SATA 3.0 6Gb/s port (Support AHCI) |
| Display | 1x 4K DP, 1x 4K HDMI | |
| I/O | 2x RJ45 (2.5GbE), 2x RS-232/422/485, 4x USB 3.2 Gen 2, up to 6x Antenna | 3x RJ45 (2.5GbE), 1x Dual Nano SIM Socket (M.2 B Key),<br>2x USB 3.2 Gen 2 (10 Gbps), 2x USB 2.0, 2x RS-232-/422/485, up to 6x Antenna |
| Expansion | 1x M.2 E-Key (2230, PCIe x1, USB2.0) for Wifi/Bluetooth | |
| Operating System | Windows 10, Windows 11, Linux Ubuntu 22.04 | |
| Certification | CE, FCC Class B, CB, UL 62368 Ed, UKCA, IC | |
| Operating Temp. | -10°C to 50°C | |
| Power | DC IN 12~36V | AT/ATX Power, DC IN 12~36V |

## AIO-200-MTL

Coming Soon

## AIO-200-ROK

NEW

## AIO Monitor

NEW

| Model | AIO-200-MTL-3L | AIO-200-ROK | AIO-200-MX |
|---|---|---|---|
| LCD Size | 10.1'' (16:10), 15.6'' (16:9), 21.5'' (16:9) | | |
| Processor | Intel® Meteor Lake Core™ Ultra 5/7 | RK3568J Arm Quad Cortex-A55 | - |
| Memory | DDR5 5600MT/S, Max. 16GB | LPDDR4 2133MHz 2 / 4 GB | - |
| Storage | 1x M.2 M Key (Default 128GB) | 32GB / 64GB of eMMC for OS | - |
| I/O | 2x DP, 3x RJ45 (2.5GbE), 2x USB 3.2 Gen 1, 1x USB Type C (5 Gbps), 1x USB 2.0, 2x COM, 2x Nano SIM | 1x 4K HDMI, 2x RJ45 (GbE), 2x USB 3.0, 1x RS-232/422/485, 1x Micro SIM, 1x Nano SIM | 1x DP, 1x HDMI (Display Input)<br>1x USB 2.0 Type B |
| Expansion | 1x M.2 E Key for Wifi/BT<br>1x M.2 B Key for 4G/5G | 1x M.2 E Key (2230) for Wifi/BT<br>1x M.2 B Key (3024) for 4G/5G | - |
| Operating System | Windows 10/11, Linux Ubuntu | Android 13 | - |
| Operating Temp. | -10°C to 50°C | -20°C to 70°C | -10°C to 50°C |
| Power | AT/ATX Power, DC IN 12~36V | AT/ATX Power, DC IN 9~36V | DC 12V |

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# VIO SERIES

## IP65 MODULAR INDUSTRIAL TOUCHSCREEN COMPUTERS & MONITORS

## RUGGED IP65 MODULAR PANEL PC

The VIO Series modular touch display systems delivers 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 SERIES

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 SERIES

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 |

PC MODULE



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# PC600-MTL SERIES

intel. Meteor Lake



| Model | PC600-MTL | PC600-MTL-1E |
|---|---|---|
| CPU Onboard | Intel® Core™ Ultra 7 Processor 155U 12M Cache, up to 4.80 GHz<br>Intel® Core™ Ultra 5 Processor 125U 12M Cache, up to 4.80 GHz | |
| Memory | 1x DDR5 5600MT/s SODIMM. Max. up to 32GB (Default 8GB) | |
| Display | 1x 4K DisplayPort 1.2<br>1x 4K HDMI 2.0b | |
| Storage | 1x Hotswap 2.5" SATA HDD Bay, support RAID 0, 1<br>1x M.2 M Key (2280, PCIe x4 Gen 4, for NVMe/AI), (Default 128GB) | |
| Expansion | 1x Dual Nano SIM socket<br>2x M.2 B Key (2242,3052, for NVMe/AI/4G/5G) | |
| PCIe | - | 1x PCIe x4 (x4 Lane, Gen 3) |
| I/O | 4x RS-232/422/485, 2x RS-232/422/485 (internal)<br>2x RJ45 (2.5GbE)<br>2x USB 3.2 Gen 1 (5 Gbps)<br>1x USB-C 3.2 Gen 2, 1x USB 2.0<br>2x CAN | |
| Power | 3-pin, AT, ATX 9~48V | |
| Operating Temperature | -20°C to 50°C<br>-10°C to 50°C (with display module) | |
| Operating System | Windows 10, Windows 11, Linux Kernel 5.X | |
| Dimensions (WxDxH) | 246 x 220 x 42 (mm) | 246 x 220 x 64 (mm) |

**Note:**

- The PC600-MTL Series is not compatible with the VIO-200 Series.
- The PC600-MTL Series is only compatible with the upcoming VIO-300 Series display module.



# PC400 SERIES

MORE

intel. Kabylake-U

| Model | PC400 | PC410 |
|---|---|---|
| CPU Onboard | Intel® 7th Gen. (Kabylake-U) Processor Core™ i3-7100U/i5-7300U | |
| Memory | 1x 260-Pin DDR4 1866/2133MT/s SODIMM. Max. up to 16GB | |
| Display | 1x DisplayPort, 1x VGA | |
| Storage | 1x 2.5" SATA HDD Bay, support RAID 0, 1<br>1x mSATA (shared by 1x Mini PCIe)<br>1x CFast (shared by 1x mSATA) | |
| Expansion | 2x Full-size Mini PCIe<br>2x External SIM socket | |
| I/O Expansion | - | 2x I/O Expansion (CAN/COM) |
| I/O | 2x RJ45<br>4x USB 3.0<br>4x RS-232/422/485 | 2x RJ45<br>4x USB 3.0<br>4x RS-232/422/485<br>2x RS-232/422/485 (internal) |
| Power | 3-pin, AT, ATX 9~48V | |
| Operating Temperature | -40°C to 70°C<br>-10°C up to 60°C (with display module) | |
| Operating System | Windows 10, Linux Kernel | |
| Certification | UL 62368 Ed. 3, CE, FCC Class A | |
| Dimensions (WxDxH) | 246 x 220 x 42 (mm) | 246 x 220 x 64 (mm) |

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# PC100-EHL SERIES

MORE

intel. Elkhart Lake

| Model | PC100-EHL | PC100-EHL-1E |
|---|---|---|
| CPU Onboard | Intel® Celeron® J6413 Processor Quad core (1.5M Cache,1.8GHz up to 3.00 GHz) | |
| Memory | 1x 260-Pin DDR4 2400/2667/3200MT/s SODIMM. Max. 32GB (Default 8GB) | |
| Display | 1x 4K DisplayPort 1.2<br>1x 4K HDMI 2.0b (Optional) | |
| Storage | 1x mSATA, 1x Removable 2.5" SATA HDD Bay<br>1x M.2 B Key (2242/3042/3052 for 5G/AI/Storage Module), (Default 128GB) | |
| Expansion | 1x Full-size Mini PCIe (USB 2.0, SATA), 2x External SIM socket,<br>1x M.2 E Key (2230, PCIe x1, USB 2.0, support Wifi/Bluetooth) | |
| PCIe Express | - | 1x PCIe x4 (x1 Lane, Gen 3) |
| I/O Expansion | | 1x I/O Expansion (CAN/COM) |
| I/O | 2x RJ45 (GbE, 2.5GbE), 4x RS-232/422/485, 2x RS-232/422/485 (internal)<br>2x USB 3.2 Gen 2 (10 Gbps), 4x USB 2.0 (2x Internal) | |
| Power | 3-Pin, AT, ATX 9~36V | |
| Operating Temperature | 0°C up to 60°C (with display module) | |
| Certification | UL 62368 Ed. 3, CE, FCC Class A | |

# PC100 SERIES

MORE

intel. Bay Trail

| Model | PC100 | PC110 |
|---|---|---|
| CPU Onboard | Intel® Celeron® Processor J1900 (4 cores, 2MB Cache, 2.0 GHz) | |
| Memory | 1x 204-pin DDR3L-1066/1333MT/s SODIMM, up to 8GB | |
| Display | 1x VGA, 1x DisplayPort | |
| Storage | 1x Removable 2.5" SATA HDD Bay<br>1x CFast (Shared by 1x mSATA & 1x Mini PCIe)<br>1x mSATA (Shared by 1x Mini PCIe) | |
| Expansion | 1x Full-size Mini PCIe Socket with uSIM Socket (PCIe + USB + SATA)<br>1x Full-size Mini PCIe Socket with USIM Socket (PCIe + USB)<br>2x External SIM socket | |
| I/O Expansion | - | 2x I/O Expansion (CAN/COM) |
| I/O | 2x RJ45, 4x RS-232/422/485<br>2x RS-232/422/485 (internal), 1x USB 3.0, 3x USB 2.0 | |
| Power | 3-Pin , AT/ATX 9~48V | |
| Operating Temperature | -40°C to 70°C<br>-10°C to 60°C (with display module) | |
| Certification | UL 62368 Ed. 3, CE, FCC Class A | |
| Dimensions (WxDxH) | 246 x 220 x 42 (mm) | 246 x 220 x 64 (mm) |

# MX200 SERIES

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 | MX200 |
|---|---|
| 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) |

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# SIO SERIES

## IP68/69K 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-ADL SERIES

Coming Soon

intel. Alder Lake

| Model | SIO-315-ADL | SIO-W315-ADL | SIO-W321-ADL | SIO-W324-ADL |
|---|---|---|---|---|
| CPU Onboard | Intel® Alder Lake N97 Processor 4 cores, 3.60 GHz (12W) | | | |
| Memory | 1x 262-pin DDR5 4800 MT/s SO-DIMM Max. up to 16GB | | | |
| I/O | 3x 2.5GbE by M12 X-Code 8-pin, 2x RS-232/422/485 by M12 A-Code 8-pin, 1x USB 3.0 by M12 A-Code 8-pin, 4x USB 2.0 by M12 A-Code 8-pin, 1x Pressure Valve | | | |
| Storage & Expansion | 1x M.2 M Key for NVMe/AI (Default 128GB) 1x M.2 B Key for 4G/5G, 1x M.2 E Key for Wifi/BT | | | |
| Power | M12 S-code 4-pin, ATX 110~240V | | | |
| Operating Temp | -10°C to 50°C | | | |
| LCD Size | 15" (4:3) TFT XGA | 15.6" (16:9) Full HD | 21.5" (16:9) Full HD | 23.8" (16:9) Full HD |
| Brightness (cd/m2) | 450 nits | 450 nits | 400 nits | 450 nits |
| Touch Screen | PCAP, 7H/IK07, Optical Bonding | | | |
| IP Level | Full System IP68/69K | | | |
| Certification | CE, FCC Class B, UL 62368 Ed. 3 | | | |
| Mounting | VESA Mount Optional: Yoke Mount, Panel Mount | | | |

## SIO-200-J1900 SERIES

MORE

intel. Bay Trail / Whiskey Lake

| Model | SIO-215-J1900 | SIO-W215-J1900 | SIO-W221-8365UE | SIO-W224-8365UE |
|---|---|---|---|---|
| CPU Onboard | Intel® Celeron® J1900 Processor, 4 cores, 2.0 GHz | | Intel® Core™ i5-8365UE Processor, 4 cores, 4.10 GHz | |
| Memory | 1x 204-pin DDR3L SODIMM Max. up to 8GB (Default 8GB) | | 1x 260-pin DDR4 2400MHz SODIMM Max. up to 32GB (Default 8GB) | |
| I/O | 2x GbE by M12 X-Code 8-pin, 2x RS-232/422/485 by M12 A-Code 8-pin, 4x USB 2.0 by M12 A-code 8-pin, 1x Pressure Valve | | | |
| Storage & Expansion | 1x mSATA (Default 128GB), 1x Full-size Mini PCIe (internal) | | | |
| Power | M12 S-code 4-pin, ATX 110~240V | | | |
| Operating Temp | -20°C to 55°C | | -10°C to 50°C | |
| LCD Size | 15" (4:3) TFT XGA | 15.6" (16:9) Full HD | 21.5" (16:9) Full HD | 23.8" (16:9) Full HD |
| Brightness (cd/m2) | 300 nits | 450 nits | 350 nits | 450 nits |
| Touch Screen | Resistive 5-wire Touch / Projective Capacitive, Optical Bonding | | | |
| IP Level | Full System IP66/69K | | | |
| Certification | CE, FCC Class A | | | |
| Mounting | VESA Mount Optional: Yoke Mount, Panel Mount | | | |

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# INDUSTRIAL BOARD SOLUTIONS

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.

## 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

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)<br>1x Type C USB 3.1 Gen 1 (5V/3A)<br>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)<br>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 SODIMM. Max. up to 8GB |
| Storage | 1x SATA 3.0Gb/s<br>1x mSATA (shared by 1x Mini PCIe) |
| Display | 1x HDMI (2048x1080 @60Hz)<br>1x LVDS |
| Rear I/O | 1x USB 3.0, 1x USB 2.0<br>1x RJ45 |
| Internal I/O | 1x RS-232/422/485, 1x RS-232<br>2x USB 2.0<br>1x 8-bit GPIO (4-in/4-out) |
| Expansion | 1x Half-size Mini PCIe<br>1x Half-size Mini PCIe (Full-size optional) |
| Operating Systems | Windows 10, Windows 7, WES7<br>Linux kernel 3.X |
| Power | ACPI, DC IN 12V |
| Operating Temperature | -10°C to 70°C |
| TPM | N/A |
| Dimension | 100 x 72 (mm) |

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# BOARDS SERIES MORE

## 3.5" SBC SERIES

intel.
AMD RYZEN EMBEDDED

| Model | CT-DR101 | CT-DWL01 |
|---|---|---|
| CPU | AMD Ryzen™ Embedded V1605B (3.6 GHz/4 Core/15W) AMD Ryzen™ Embedded R1606G (3.5 GHz/2 Core/25W) | 8th Gen. Intel® Core™ Processor i3/i5/i7 Intel® Celeron® Processor (up to 4.4 GHz/4 Core/15W) |
| Memory | 2x 260-pin DDR4 2400 SO-DIMM. Max. up to 32GB (ECC and Non-ECC) | 1x 260-Pin DDR4 2400MHz SO-DIMM Max. up to 32GB |
| Storage | 1x SATA 7-Pin Connector | 2x SATA Gen3 |
| Display | 1x DisplayPort 1.4 (Support DP++, 4K UHD) 1x HDMI 2.0b (4K UHD, Optional) 1x LVDS | 1x DisplayPort (4K) 1x HDMI (1920 x 1200, Optional) 1x LVDS & 1x EDP internal connector |
| Rear I/O | 2x RJ45 (GbE) 2x USB 3.2 Gen2 (10 Gbps) 2x USB 2.0 | 2x RJ45 (GbE) 4x USB 3.2 Gen 2 (10 Gbps) |
| Internal I/O | 2x 6-Pin Front Panel Header for Audio | 4x RS-232/422/485 2x USB 2.0 2x 4-bit DIO (4-in/4-out) 1x Front Panel Audio |
| Expansion | 1x Full-size Mini PCIe (PCIe x1, USB 2.0) 1x M.2 B Key, 3042, Support SATA 1x SIM socket (M.2 B Key attached) | 2x mPCIe x1 (Gen3) |
| Operating Systems | Windows® 10, Linux Kernel 5.x | |
| Power | AT/ ATX Power, DC IN 12V | AT/ ATX Power, DC IN 12V |
| Operating Temperature | -40°C to 75°C | -40°C to 70°C |
| TPM | TPM 2.0 | TPM 2.0 Through Infineon |
| Dimension | 146 x 102 (mm) | |





BOARDS SERIES

# BOARDS SERIES MORE

## 3.5" SBC SERIES

intel.




| Model | CT-DAS01 | CT-DAL11 | CT-DML01 |
|---|---|---|---|
| CPU | Intel® Atom® x7433RE Processor (3.40 GHz/4 core/12W) Intel® Atom® x7835RE Processor, (3.60/8 core/20W) | 12th Gen Intel® Alder Lake-N Processor N97 (3.60 GHz/4 Core/12W) Intel® Atom® x7835RE Processor (3.60 GHz/8 Core/12W) | Intel® Core™ Ultra 5 Processor 125U, up to 4.30 GHz (2+8+2 core) Intel® Core™ Ultra 7 Processor 155U, up to 4.80 GHz (2+8+2 core) |
| Memory | 1x DDR5 4800 MT/s up to 16GB (Non-ECC) | 1x 262-pin DDR5 4800 SO-DIMM. Max. up to 16GB (Non-ECC) | 1x 262-Pin DDR5 5200MHz SO-DIMM. Max. up to 32GB |
| Storage | 1x M.2 M Key (2242/2260/2280, PCIe x2) for NVMe SSD | 1x SATA 3.0 6Gb/s (Support AHCI) | 1x M.2 M Key (2280, PCIe x4 Gen 4/SATA) for NVMe/SATA, auto detect |
| Display | 1x 4K DP 1x 4K HDMI 1x eDP / 1x LVDS | 1x DisplayPort 1.4 (4K DCI) 1x HDMI (4K UHD) 1x eDP 1.4b (FHD) 1x LVDS (FHD) | 2x DP++ 1.4 (4K UHD) 1x eDP 1.4b (4K UHD) 1x LVDS (WUXGA) |
| Rear I/O | 2x RJ45 (2.5GbE), 2x RS232 1x Nano SIM Socket (Attached to M.2 B Key), 3x USB 3.2 Type A Gen 1 (5 Gbps) 1x USB 3.2 Type C Gen 1 (5 Gbps) | 3x RJ45 (2.5GbE) 1x Dual Nano SIM Socket 2x USB 3.2 Gen 2 (10 Gbps) | 3x RJ45 (2.5GbE) 2x SIM Nano Socket 1x USB 3.2 Type-C GEN 1 (5 Gbps) 2x USB 3.2 Gen 1 (5 Gbps) 1x USB 2.0 |
| Internal I/O | 2x RS232/422/485 2x USB 2.0 1x 4-in / 4-out DIO | 2x RS-232/422/485 2x USB 2.0 1x 8-pin GPIO (4-in/4-out) | 4x RS-232/422/485 (internal) 1x 8-pin GPIO (4-in/4-out) 4x USB 2.0 |
| Expansion | 1x M.2 E Key (2230, PCIe x1, USB 2.0) for Wi-Fi/Bluetooth, 1x M.2 B key (2242/3042/3052, PCIe x1) for NVMe/SATA/4G/5G Module, | 1x M.2 B Key (2242/2280/3042) support for NVMe/4G/5G, 1x M.2 E Key (PCIe x1, USB 2.0, 2230) for Wifi/Bluetooth | 1x M.2 B Key (3042/3052, PCIe x2 +USB 3.0) for 4G/5G 1x M.2 E Key (2230) for Wifi/ Bluetooth |
| Operating Systems | Windows® 10 Enterprise, Windows® 11 IoT Enterprise Linux Linux Ubuntu 22.04 | | |
| Power | AT/ATX Power, DC IN 9~36V | AT/ATX Power, DC IN 12~36V | AT/ATX Power, DC IN 12~24V |
| Operating Temperature | -40°C to 85°C | -10°C to 60°C | 0°C to 60°C |
| TPM | TPM 2.0 | | |
| Dimension | 146 x 102 (mm) | | |

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# BOARDS SERIES MORE

## MINI ITX SERIES

NEW

| Model | CT-XSL01 | CT-XCL01 | CT-XRL02 |
|---|---|---|---|
| CPU | Intel® 6th Gen. Core™ i3/i5/i7 Processor (LGA 1151, 35W) | 8th/9th Gen Intel® CFL-R S Processor (LGA 1151, 95W/65W/35W) | 12th/13th/14th Gen. Intel i3/i5/i7/i9 (Max 65W) |
| Memory | 2x DDR4 1866/2133MHz SODIMM. Max. 32 GB | 2x DDR4 2133/2400/2666 SODIMM. Max. up to 32 GB | 2x 260-pin DDR4 SO-DIMMs 3200 MHz (Non-ECC) Max. 64 GB |
| Storage | 4x SATA 6.0Gb/s<br>1x mSATA (shared by 1x mPCIe)<br>1x M.2 M-Key (2280) | 4x SATA 3.0Gb/s<br>(support RAID 0, 1, 5, 10),<br>1x M.2 M-Key (2280, SATA) | 3x SATA 6.0Gb/s (RAID 0, 1, 5, 10),<br>1x M.2 M-Key<br>(2242/2280, PCIe x4 Gen 4) |
| Display | 1x DVI-D<br>1x DisplayPort<br>1x LVDS | 1x DP 1.2, 1x DVI-D<br>1x HDMI 1.4<br>1x LVDS | 1x HDMI Real 4K<br>2x Real 4K DP |
| Rear I/O | 2x RJ45 (GbE),<br>1x RS-232/422/485,<br>4x USB 3.2 Gen1 (5 Gbps),<br>2x USB 2.0 | 2x RJ45 (GbE),<br>1x RS-232/422/485,<br>4x USB 3.1 Gen 2 (10 Gbps),<br>1x USB 3.1 Type-C (optional) | 3x RJ45 (2.5GbE)<br>6x USB 3.2 Gen 2<br>2x RS-232/422/485 |
| Internal I/O | 4x RS-232<br>2x USB 3.2 Gen1 (5 Gbps),<br>2x USB 2.0,<br>1x 8-bit GPIO (4-in/4-out) | 4x RS-232<br>2x USB 3.2 Gen 1 (5 Gbps)<br>2x USB 2.0<br>1x 8-bit DIO (4-in/4-out) | 2x USB 3.2 Gen 2 (10 Gbps)<br>1x Front panel audio<br>2x USB. 2.0<br>1x 16-bit DIO (8-in/8-out) |
| Expansion | 1x Full-size mPCIe<br>1x PCIe x16 | 1x Full-size mPCIe<br>1x PCIe x16 (Gen 3) | 1x PCIe x16 Gen4 Gold Finger for Riser Card Expansion<br>(1x PCIe x16 or 2x PCIe x8),<br>1x M.2 B-Key 3042<br>(with Nano SIM for 4G/5G),<br>1x M.2 E-Key 2230 (for Wifi/BT) |
| Operating Systems | Windows 10, Windows 8.1, WES8.1, Windows 7, WES7, Linux Kernel 4.X | Windows 10<br>Linux Kernel 5.X | Windows 10/11<br>Linux Kernel |
| Power | ATX Power | ATX Power | ATX-Power 24P, 12V-8P |
| Operating Temperature | 0°C to 60°C | | |
| TPM | TPM 2.0 (Optional) | | TPM 2.0 |
| Dimension | 170 x 170 (mm) | | |







# BOARDS SERIES MORE

## MICRO ATX SERIES

| Model | CT-MCL01 | CT-MRL01 |
|---|---|---|
| CPU | 8th/9th Gen. Intel® Core™ i3/i5/i7 CFL-R S Processor (LGA 1151, 95W/65W/35W TDP) | 12th/13th/14th Gen Intel® Core™ i3/i5/i7/i9 Alder lake-S, Raptor Lake-S (LGA 1700, 65W Max) |
| Memory | 4x Pin DDR4 2133/2400/2666MHz DIMM. Max. 64 GB | 4x DDR4 2133/2400/2666MHz DIMM. Max 128GB |
| Storage | 6x SATA 6.0Gb/s<br>1x M.2 M-Key (2242/2260/2280, PCIe x4) for NVMe/SATA | 4x SATA 6.0Gb/s<br>2x M.2 M-Key (2242/2260/2280, PCIe x4 Gen4) for NVMe/SATA |
| Display | 1x VGA<br>1x DVI-D<br>2x DP 1.2 | 4x DP++ (4K) |
| Rear I/O | 2x RJ45 (GbE)<br>2x RS-232/422/485<br>4x USB 3.2 Gen 2 (10 Gbps) | 2x RJ45 (GbE, 2.5GbE)<br>1x USB-C 3.2 Gen 2x2 (20 Gbps)<br>6x USB 3.1 Gen 2 (10 Gbps) |
| Internal I/O | 4x RS-232<br>1x USB 3.2 Gen 1 (5 Gbps)<br>7x USB 2.0<br>1x 8-bit DIO (4-in/4-out) | 6x RS-232<br>2x USB 3.0 Gen 1 (5 Gbps)<br>4x USB 2.0<br>1x 8-bit DIO (4-in/4-out) |
| Expansion | 1x PCIe x16 (Gen3)<br>2x PCIe x4 (Gen3)<br>1x PCIe x1 (Gen3)<br>1x M.2 E-Key (2230, PCIe x2, USB 2.0) | 1x PCIe x16 Slot (Gen 5)<br>1x PCIe x16 (Gen 4, 4-Lane)<br>1x PCIe x4 (Gen 4, Open End)<br>1x PCIe x4 (Gen 3, Open End)<br>1x M.2 E-Key (2230, PCIe x2 Gen3) for USB 2.0 |
| Operating Systems | Windows 10, Linux Linux Kernel 5.X | Windows 10/11, Linux Kernel 5.X |
| Power | ATX Power | |
| Operating Temperature | 0°C to 60°C | |
| TPM | TPM 2.0 | |
| Dimension | 244 x 244 (mm) | |

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## PRODUCTS

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- **Cost Effective** Rich I/O Ports and M.2 Expansions



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- **CORE ULTRA** Core Ultra 5 125U / Core Ultra 7 155U

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- **IP65** Front Panel Protection

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- **CORE ULTRA** Core Ultra 5/7

### INDUSTRIAL BOARDS

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**CT-PMG01**

2.5" Series

MediaTek Geno
MTK G510/G700

Coming Soon

**CT-DAS01**

3.5" Series

Intel Amston Lake
X7835RE / X7433RE

Coming Soon

**CT-XAR01**

Mini-ITX Series

Intel Arrow Lake
Core Ultra Series

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