



2021

PRODUCT SOLUTION GUIDE



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

Premio's Offers a Full Range of Validated and Tested Industrial Systems to meet the demands from Industry 4.0



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 30 years. Our engineering specialty and agile manufacturing pushes the technical boundaries in Embedded IoT Computers , Rugged Edge Computers, and HMI Displays.

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 facility (ISO9001, ISO2001, ISO13485) and strategic locations in worldwide, Premio provides robust product engineering, flexible speed to market, and unlimited manufacturing transparency. Premio shares a promise to deliver the best possible next generation industrial PC solutions compliant with the highest standards and certifications for our customers in:

- AI Edge Inference
- Internet of Things (IoT)
- Factory Automation
- Machine Vision
- Vehicle Fleet Telematics
- Kiosk & Retail
- Security & Surveillance
- Medical Inference Analysis

OUR VISION

Premio aims to maintain lifetime and profitable partnership with its customers by delivering high standard design, solution, integration and validation. Through our research and staff expertise, we will continue to provide high quality products and application-ready hardware to fulfill a variety of market demands.

OUR BRAND POSITION

Apart from our application-ready hardware, Premio is also dedicated to provide a more customer-oriented approach in our product design, development, and marketing strategy. Our research team is focused in analyzing customer expectations and embracing idea changes to its entire operation to fit our customers' needs.

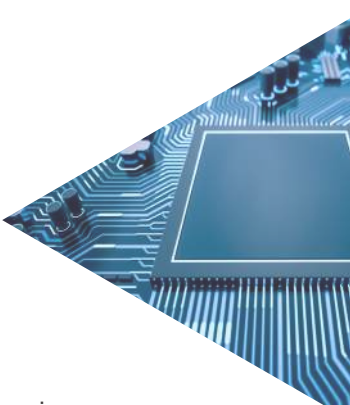
OUR MISSION

Premio is dedicated to offer more diversified and innovative industrial embedded solutions with unsurpassed designs and highest quality to meet world-class standards and manufacturing demands in the coming years.

OUR CORE VALUES

Premio is committed to assure the interests of its customers by offering the following:

- INNOVATION** ● Premio provides customers with cutting-edge and friendly-price products with unmatched flexibility and longevity to achieve mutual win-win situation.
- COMMITMENT** ● To assure the highest level of quality control in systems assembly and testing, Premio has designed a comprehensive quality control program that addresses the entire process from component inspection to final testing.
- COLLABORATION** ● Premio has strong relationships with its suppliers, sales team and product managers, which benefit the customer by having up to date information, better support programs and product compatibilities
- ACCOUNTABILITY** ● Premio is driven to step forward by accepting change and moving ahead with speed and accuracy. We continue to increase our decision-making efficiency and speed of execution to attain the best possible solution for our customers' needs.
- AGILITY** ● Premio keeps its promises by providing customers high quality products, competitive price and excellent before-after sales services.



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.

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)

FANLESS EMBEDDED SYSTEM 08

Premio fanless embedded systems are extremely flexible and reliable to provide integrated solutions to meet different needs. With its superior features integration, exceptional system performance, flexible I/O connections, wide range power input, smart management functions and rugged reliability, Premio fanless embedded systems deliver a compelling platform that is needed in today’s demanding workloads and industrial needs.

FANLESS MINI PC BCO SERIES 10	IN-VEHICLE ACO SERIES 19	IP65 / IP67 WATERPROOF WCO SERIES 23	RUGGED EDGE AI EDGE INFERENCE 26
RUGGED RCO SERIES 12	MACHINE VISION VCO SERIES 21	AI EDGE INFERENCE EDGE SERIES 24	



ETHERNET MODULE SERIES

Premio provides ethernet daughterboard modules that integrate easily into Premio embedded and edge computers through standard PCIe protocols. These flexible add-in modules provide additional ethernet I/O ports and scalable connectivity for IoT deployments that require ethernet connections in multiple RJ45 and M12 locking connectors.

ETHERNET MODULE PROPRIETARY MODULE 28

INDUSTRIAL DISPLAY SYSTEMS 30

Premio’s Industrial Panel PCs and Touch Monitors are purpose-built for the toughest embedded deployments requiring mission-critical reliability. System integrators and automation engineers can easily deploy Premio industrial panel PCs and touch monitors as human machine interfaces to achieve better productivity and operational efficiency in their enterprise projects.



Premio industrial display systems are patented, reliable, industrial-grade that is customized to provide solutions for automation, information and communication applications. The innovative modular design makes the display systems more flexible and versatile. With its rugged and well-designed features, it can easily withstand any kind of environments and conditions.

IP66/IP69K-rated sealing provides uncompromising water protection, withstanding high-pressure, high-temperature washdowns essential to sanitary assurance.

PANEL PC VIO PC SERIES 32	SYSTEM MODULE PC SERIES MX SERIES 36	IP66 WATERPROOF WIO SERIES 40
TOUCH MODULE VIO MX SERIES 35	DISPLAY MODULE VIO SERIES 39	IP66/IP69 WASHDOWN SIO SERIES 41

MOTHERBOARD SYSTEMS 42

Premio industrial boards offers a wide range form factor from Mini-ITX, Micro ATX, 3.5” SBC, COM Express-Mini Size Module, COM Express-Compact Size Module, COM Express-Basic Size Module, and COM Express-Carrier Boards.



CERTIFICATION-READY INDUSTRIAL COMPUTERS 44

Certification-Ready industrial computers are embedded computing solutions that act as sub-assembly building blocks or final OEM system configuration in key enterprise and IoT applications.

PREMIO FANLESS EMBEDDED IOT AND EDGE COMPUTERS

RODUCT PORTFOLIO

In-Vehicle

Fanless
Computer

ACO-3000
Series
Broadwell-U

ACO-6000
Series
Skylake &
Kabylake-S

IP65 / IP67 Waterproof

Fanless
Computer

WCO-3400
Series
Kabylake-U

Mini

Fanless
Computer

BCO-1000
Series
Bay Trail

BCO-2000
Series
Whiskey Lake

Machine Vision

Computer

VCO-6000
Series
Skylake &
Kabylake-S

VCO-6100
Series
CFL-R S

Rugged

Fanless
Computer

RCO-1000
Series
Bay Trail

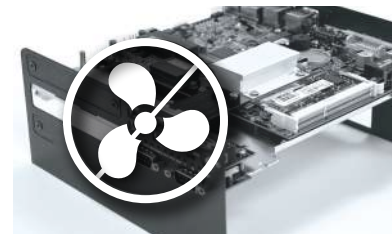
RCO-3000
Series
Broadwell-U

RCO-3400
Series
Kabylake-U

RCO-3600
Series
Skylake &
Kabylake-S

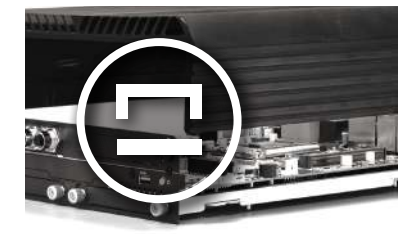
RCO-6000
Series
Skylake &
Kabylake-S

RCO-6100
Series
CFL-R S



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

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

THERMAL PERFORMANCE

Utilize metal material (copper and aluminum) to accomplish fanless Fast heat dissipation by integrated heat pipe on heat block and heat sink Unique thermal design that allows desktop CPU (up to 35W) to operate without fan in extended temperature range



INDUSTRIAL GRADE COMPONENT

Strict component selection adopting industrial grade parts like capacitor, power choke, etc. Better electrical performance and more stable system performance Product longevity supported Less RMA + Longer product lifecycle= Lower TCO (total cost of ownership)

[MORE INFO](#)



BCO-1000 SERIES

- Intel® Celeron® J1900 Processor (Quad Core, 2.0GHz)
- Dual Independent Display
- Rich I/O Features with up to 6x RS-232/422/485
- 2x Full-size Mini-PCIe Slot for Communication or Expansion Modules
- 9 to 30 VDC Wide Range Power Input Supporting AT/ATX Mode
- Ultra Compact Size Design
- Fanless & Cable-less in Design
- TPM 2.0 Supported (Optional)

<div><div></div><div></div><div></div><div></div><div></div></div>					
	Basic Fanless System ideal for space-constrained applications		With one Universal Expansion Slot	With two Universal Expansion Slots	With 8-bit Digital I/O, DVI-I/DP dual display output, and 6x COM ports
Model	BCO-1000	BCO-1010	BCO-1020	BCO-1030	
CPU Onboard	Intel® Celeron® J1900				
Memory	1x 204-pin DDR3L-1066/1333MHz SO-DIMM, up to 8GB				
Graphic Output	1x DVI-I (optional Display Port: BCO-1010A, BCO-1020C & BCO-1030)				
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)				
Storage	1x mSATA (shared by 1x Mini PCIe)	1x mSATA (shared by 1x Mini PCIe) & 1x Internal 2.5" SATA HDD Bay			
Internal Expansion Slot	2x Full-size mini-PCIe (1x shared with mSATA)				
Power	9-30 VDC, AT/ATX Select, 3-pin Terminal Block				
Audio	Line-out / Mic-in Phone Jack				
Operating Temperature	-20°C to 50°C				
Dimensions (WxDxH)	142 x 101 x 30 mm	142 x 101 x 41.5 mm	142 x 101 x 58 mm	142 x 101 x 75 mm	
Weight	0.10 kg	0.19 ~ 0.21 kg	0.26 ~ 0.28 kg	0.34 kg	
Universal Expansion Slot (front)	0 (BCO-1000)	0	0	1	
Universal Expansion Slot (rear)	0	1 (BCO-1010)	0	0	
DP, 8-bit Isolated DIO (rear)		BCO-1010A			
2x COM (rear)		BCO-1010B			
4x USB (rear)		BCO-1010U			
DP, 8-bit Isolated DIO, & 2x COM (rear)			BCO-1020C		
4x COM (rear)			BCO-1020D		
DP, 8-bit Isolated DIO, & 4x COM (rear)				BCO-1030	



BCO-2000 SERIES

- Support 8th Gen. Intel® Core™ i5 & Intel® Celeron® Processor
- 1x 260-pin DDR4 2400 SO-DIMM. Max. up to 32GB
- 2x Intel® GbE (Support Wake-on-LAN and PXE)
- Dual Independent Display, 1x DP, 1x HDMI (optional)
- 2x Mini PCIe Gen3 with 1x SIM Slot
- 4x USB 3.2 Gen 2 (10Gbps), 4x RS-232/422/485 (w/ 2x internal)
- 1x Internal 2.5" SATA HDD Bay and 1x mSATA
- Watchdog timer, software programmable supports 1-225 sec. system reset
- TPM 2.0 Supported

<div><div></div><div></div><div></div></div>						
Basic Fanless System ideal for space-constrained applications						
Model	BCO-2000					
CPU Onboard	Support 8 th Gen. Intel® WL-UE Processor (15W TDP) Intel® Core™ i5-8365UE Processor 6M Cache, up to 4.10 GHz Intel® Celeron® Processor 4305UE 2M Cache, 2.00 GHz					
Memory	1x 260-Pin DDR4 2400MHz SO-DIMM, up to 32GB					
Graphic Output	1x DisplayPort, 1x HDMI (Optional)					
LAN	2x RJ45 GbE (Support Wake-on-LAN and PXE)					
Storage	1x mSATA (shared by 1x Mini PCIe) & 1x Internal 2.5" SATA HDD Bay					
Internal Expansion Slot	2x Full-size Mini-PCIe (1x shared with mSATA)					
Power	AT/ATX 12V Select, 3-pin Terminal Block					
Audio	Line-out / Mic-in Phone Jack					
Operating Temperature	-20°C to 60°C					
Dimensions (WxDxH)	140 x 192 x 61 mm					
Weight	1.4 kg					
Universal Expansion Slot	2					
Expansion (Option)	2x LAN	2x PoE (Support 1x Universal Slot Only)	2x COM	4x COM	2x USB 2.0 (Support 1x Universal Slot Only)	2x USB 3.0 (Support 1x Universal Slot Only)



MINI INDUSTRIAL EMBEDDED COMPUTER

RCO-1000 SERIES

- Intel® Atom® processor E3845, 1.91GHz or Intel® Celeron® J1900, 2.0GHz
- Dual Independent Display
- Rich I/O Features with up to 6x RS-232/422/485
- 2x Full-size Mini-PCIe Slot for Communication or Expansion Modules
- 9 to 48 VDC Wide Range Power Input Supporting AT/ATX Mode
- Ultra Compact Size Design
- Fanless & Cable-less in Design

<div><div></div><div></div><div></div><div></div><div></div></div>				
	Ultra compact Fanless System ideal for space-constrained applications	With one Universal Expansion Slot	With three Universal Expansion Slots	With 8-bit Digital I/O, DVI-I/DP dual display output, and 6x COM ports
Model	RCO-1000	RCO-1010	RCO-1020	RCO-1030
CPU Onboard	Intel® Atom® E3845, or Celeron® J1900			
Memory	1x 204-pin DDR3L-1066/1333MHz SO-DIMM, up to 8GB			
Graphic Output	1x DVI-I (optional DisplayPort: RCO-1010A, RCO-1020C & RCO-1030)			
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)			
Storage	1x mSATA (shared by 1x Mini PCIe)	1x mSATA (shared by 1x Mini PCIe) & 1x Internal 2.5" SATA HDD Bay		
Internal Expansion Slot	2x Full-size mini-PCIe			
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block			
Audio	Line-out / Mic-in Phone Jack			
Operating Temperature	-40 °C to 70 °C			
Dimensions (WxDxH)	150 x 105 x 37 mm	150 x 105 x 49 mm	150 x 105 x 65 mm	150 x 105 x 85 mm
Weight	0.69 kg	0.85 ~ 0.88 kg	0.97 ~ 0.98 kg	1.11 kg
Universal Expansion Slot (front)	0 (RCO-1000)	0	1	2
Universal Expansion Slot (rear)	0	1 (RCO-1010)	0	0
DP, 8-bit Isolated DIO (rear)		RCO-1010A		
2x COM (rear)		RCO-1010B		
Power Ignition Management (internal)		RCO-1010G		
DP, 8-bit Isolated DIO, & 2x COM (rear)			RCO-1020C	
4x COM (rear)			RCO-1020D	
DP, 8-bit Isolated DIO, & 4x COM (rear)				RCO-1030



ADVANCED INDUSTRIAL EMBEDDED COMPUTER

RCO-3000 SERIES

- Intel® 5th Gen. Core™ processor i5-5350U, up to 2.9GHz / i3-5010U, 2.1GHz or Celeron® 3765U, 1.9GHz
- Triple Independent Display
- Support up to 6x LAN or 4x PoE by Unique Modular Design
- Multiple Expansion Capability including PCIe, PCI, and Mini PCIe
- Wide Operating Temperature (-40°C to 70°C)
- 9 to 48 VDC Wide Range Power Input Supporting AT/ATX Mode
- Fanless & Cable-less in Design

<div><div></div><div></div></div>	
	Advanced Fanless System based on Intel® Broadwell-U processors
Model	RCO-3000
CPU Onboard	Intel® 5 th Gen. Core™ i5-5350U, i3-5010U, Celeron® 3765U
Memory	1x 204-pin DDR3L-1333/1600MHz SO-DIMM, up to 8GB
Graphic Output	1x DVI-I, 1x DisplayPort
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)
USB, Serial, & Digital I/O	2x USB 3.0, 6x USB 2.0, 4x RS-232/422/485, 8x isolated digital I/O
Storage	2x 2.5" SATA HDD Bay (1x internal, 1x removable) with RAID 0, 1, 5, 10 support, and 2x mSATA
Internal Expansion Slot	2x Full-size Mini-PCIe
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block
Audio	Speaker-out / Mic-in Phone Jack
Operating Temperature	-40 °C to 70 °C
Dimensions (WxDxH)	185 x 197 x 57.4 mm
Weight	2.16 ~ 2.54 kg
Universal Expansion Slot (front)	1
Proprietary Module Expansion	Up to 1x Module <ul style="list-style-type: none">• DTB-4LAN• DTB-4LAN-PWR• DTB-4LAN-M12• DTB-4LAN-PWR-M12



HIGH-PERFORMANCE RUGGED EDGE COMPUTER

RUGGED MINI (SFF) INDUSTRIAL COMPUTER

RCO-3400 SERIES

RCO-3600 SERIES

- Support 7th Gen. Intel® Core™ i5 / i3 Processor
- Triple Independent Display
- Support up to 6x LAN or 4x PoE by Unique Modular Design
- Multiple Expansion Capability including PCIe, PCI, and Mini PCIe
- Wide Operating Temperature (-40°C to 70°C)
- 9 to 50 VDC Wide Range Power Input Supporting AT/ATX Mode
- Fanless & Cable-less in Design
- TPM 2.0 Supported

- Support 6th/7th Gen. Intel® Core™ i7/i5/i3 or Pentium® / Celeron® Desktop Processor
- Intel® Q170 chipset
- 2x DDR4 1866/2133MHz SODIMM. Max. up to 32GB
- Intel® HD Graphics 530 / 630
- Triple Independent Display
- 2x internal 2.5" SATA HDD bay with RAID 0, 1, 5, 10 support, 2x mSATA (shared by 2x Mini PCIe), 1x CFast
- 2x full-size Mini PCIe (shared by 2x mSATA) for communication or expansion modules, 2x external SIM socket
- 4x RS-232/422/485 (w/ 2x internal), 6x USB 3.0, 2x USB 2.0
- 9 to 50 VDC Wide Range Power Input Supporting AT/ATX Mode
- TPM 2.0 Supported

<div><div></div><div></div><div></div><div></div></div>			
	Advanced Fanless System based on Intel® KabyLake-U processors		With one PCI or PCIe x4 expansion slot
Model	RCO-3400	RCO-3411x	RCO-3422xx
CPU Onboard	Intel® 7 th Gen. (KabyLake-U) Processor Core™ i5-7300U, Core™ i3-7100U		
Memory	1x 260-pin DDR4 1866/2133MHz SO-DIMM, up to 16GB		
Graphic Output	1x VGA, 2x DisplayPort		
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)		
USB, Serial, & Digital I/O	4x USB 3.0, 2x USB 2.0, 5x RS-232/422/485 (w/ 3x internal), 16x isolated digital I/O		
Storage	2x 2.5" SATA HDD Bay (1x internal, 1x removable) with RAID 0, 1, 5, 10 support, 1x mSATA (shared by 1x Mini PCIe), and 1x CFast (shared by 1x mSATA)		
Internal Expansion Slot	2x Full-size mini-PCIe		
Power	9-50 VDC, AT/ATX Select, 3-pin Terminal Block		
Audio	Line-out / Mic-in Phone Jack		
Operating Temperature	-40 °C to 70 °C		
Dimensions (WxDxH)	185 x 197 x 57.4 mm	185 x 197 x 85 mm	185 x 197 x 105 mm
Weight	2.17 ~ 2.66 kg	2.73 ~ 3.1 kg	2.95 ~ 3.32 kg
1x PCIe x4		RCO-3411E	
1x PCI		RCO-3411P	
2x PCIe x4			RCO-3422EE
2x PCI			RCO-3422PP
Proprietary Module Expansion	Up to 1x Module <ul style="list-style-type: none">• DTB-4LAN• DTB-4LAN-PWR• DTB-4LAN-M12• DTB-4LAN-PWR-M12		

<div><div></div><div></div></div>	
	Advanced Fanless System based on Intel® Skylake & Kaby Lake-S processors
Model	RCO-3600
CPU Support	Support 6 th & 7 th Gen Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® Desktop Processor (LGA 1151) <ul style="list-style-type: none">- 7th Gen Intel® Core™ i7-7700T / i5-7500T / i3-7101TE- 6th Gen Intel® Core™ i7-6700TE / i5-6500TE / i3-6100TE- Intel® Pentium® G4400TE / Celeron® G3900TE
Memory	2x DDR4 1866/2133MHz SODIMM. Max. up to 32GB
Graphic Output	Intel® HD Graphics 530 / 630 1x VGA (by optional split cable), 1x DisplayPort, and 1x HDMI (optional)
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)
USB, Serial, & Digital I/O	6x USB 3.0, 2x USB 2.0 (internal), 4x RS-232/422/485 (2x internal), 16x isolated digital I/O
Storage	2x internal 2.5" SATA HDD Bay with RAID 0, 1, 5, 10 support, 2x mSATA (shared by 2x Mini PCIe), and 1x CFast
Internal Expansion Slot	2x Full-size mini-PCIe
PCIe x 16 (8-Lane)	0
Power	9-50 VDC, AT/ATX Select, 3-pin Terminal Block
Audio	Speaker-out / Mic-in Phone Jack
Operating Temperature	-25 °C to 60 °C
Dimensions	185 x 197 x 57.4 mm
Weight	2.28 kg



RUGGED MINI (SFF) INDUSTRIAL COMPUTER

RCO-3700

SERIES

- ISupport 8th/9th Gen Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP)
- Intel® Q370 Chipset
- Triple Independent Display by 1x DVI-I and 2x DisplayPort
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 2x Full-size Mini PCIe (shared by 1x mSATA), and 2x SIM socket
- 2x 2.5" SATA HDD Bay with RAID 0, 1, 5, 10 support,
- 1x mSATA (Shared by 1x Mini PCIe)
- 1x M.2 (E Key, PCIe x1, USB 2.0, 2230)
- 4x USB 3.2 Gen 2 (10 Gbps), 4x USB 2.0 (2x internal), 5x RS-232/422/485 (2x internal)
- 8x DI + 8x DO with isolation
- 9 to 48VDC Wide Range Power Input Supporting AT/ATX Mode
- TPM 2.0 Supported

<div><div>Coming soon</div><div>Coming soon</div><div>Coming soon</div></div>		
	Superior Fanless Embedded System with LGA 1151 for Intel 8 th /9 th Gen CPU & Q370 PCH	Superior Fanless Embedded System with LGA 1151 for Intel 8 th /9 th Gen CPU & Q370 PCH, 2x PCIe x 16
Model	RCO-3700	RCO-3722
CPU Support	Support 8 th & 9 th Gen Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP) (Core™ i7-9700E/9700TE/8700T, Core™ i5-9500E/9500TE/8500T, Core™ i3-9100E/9100TE/8100T, Pentium® G5400T, or Celeron® G4900T)	
Memory	2x 260-Pin DDR4 2400/2666MHz SODIMM. Max. up to 64GB (Un-buffered and Non-ECC)	
Graphic Output	1x DVI-I, 2x DisplayPort	
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)	
USB, Serial, & Digital I/O	4x USB 3.2 Gen 2 (10 Gbps), 4x USB 2.0 (2x internal), 5x RS-232/422/485 (2x internal), 16x isolated digital I/O	
Storage	2x 2.5" SATA HDD bay with RAID 0, 1, 5, 10 support (1x internal; 1x removable & hot-swappable), 1x mSATA (shared by 1x Mini PCIe)	
Internal Expansion Slot	2x Full-size mini-PCIe (1 shared by 1x mSATA), 1x M.2 E K ey	
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block	
Audio	Speaker-out	
Operating Temperature	-25°C to 60°C (35W CPU) ; -25°C to 50°C (65W CPU)	
Dimensions	192 (W) x 197 (D) x 60.3 (H) mm	192 (W) x 197 (D) x 107.8 (H) mm
Weight	2.28 kg	3.10 kg
2x PCIe x 16 (8-Lane)		RCO-3722EE
PCIe x 16		RCO-3721E
Proprietary Module Expansion	Up to 1x Module <ul style="list-style-type: none">DTB-D10GDTB-4ETHDTB-4ETH-M12DTB-4ETH-PWRDTB-4ETH-PWR-M12	



PERFORMANCE FANLESS INDUSTRIAL COMPUTER

RCO-6000

SERIES

- Support 6th/7th Gen. Intel® Core™ i7/i5/i3 or Pentium® / Celeron® Desktop Processor
- Triple Independent Display
- Support up to 10x LAN or 8x PoE by Unique Modular Design
- Multiple Expansion Capability including PCIe, PCI, and Mini PCIe
- Wide Operating Temperature (-25°C to 70°C)
- 9 to 48 VDC Wide Range Power Input Supporting AT/ATX Mode
- Fanless & Cable-less in Design
- TPM 2.0 Supported

<div><div></div><div></div><div></div><div></div></div>			
	Superior Fanless System with LGA-1151 socket for Intel® Kabylake & Skylake-S processors	With one PCI or PCIe x16 expansion slot	With two PCI or PCIe x8/x16 expansion slot
Model	RCO-6000	RCO-6011x	RCO-6022xx
CPU Support	Intel® 6 th /7 th Gen. (Kabylake & Skylake-S) Desktop Processor (Core™ i7-7700T/6700TE, Core™ i5-7500T/6500TE, Core™ i3-7101TE/6100TE, Pentium® G4400TE, or Celeron® G3900TE)		
Memory	2x 260-pin DDR4-1866/2133MHz SO-DIMM, up to 32GB		
Graphic Output	1x DVI-I, 2x DisplayPort		
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)		
USB, Serial, & Digital I/O	6x USB 3.0, 2x USB 2.0, 4x RS-232/422/485 (w/ 2x internal), 16x isolated digital I/O		
Storage	4x 2.5" SATA HDD Bays with RAID 0, 1, 5, 10 support (2x internal, 2x removable), 2x mSATA (shared by 2x Mini PCIe)		
Internal Expansion Slot	4x Full-size mini-PCIe		
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block		
Audio	Speaker-out / Mic-in Phone Jack		
Operating Temperature	-25 °C to 70 °C		
Dimensions (WxDxH)	240 x 261 x 79 mm	240 x 261 x 107 mm	240 x 261 x 127 mm
Weight	4.37 ~ 5.21 kg	4.67 ~ 6.40 kg	5.54 ~ 6.64 kg
Universal Expansion Slot (front)	2 (RCO-6000)	2	2
Universal Expansion Slot (rear)	0	1	2
1x PCIe x16		RCO-6011E	
1x PCI		RCO-6011P	
2x PCIe x8			RCO-6022EE
2x PCI			RCO-6022PP
1x PCIe x16 & 1x PCI			RCO-6022PE
Proprietary Module Expansion	Up to 2x Module <ul style="list-style-type: none">DTB-4LANDTB-4LAN-M12DTB-4LAN-PWRDTB-4LAN-PWR-M12		



HIGH-PERFORMANCE INDUSTRIAL COMPUTER

COMPACT IN-VEHICLE FANLESS COMPUTER



RCO-6100 SERIES

- Support 8th / 9th Gen. Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP)
 - Intel® Q370 chipset
 - 2x DDR4 2400/2666Hz SODIMM. Max. up to 64GB
 - Triple Independent Display by 1x DVI-I and 2x DisplayPort
 - 4x USB 3.2 Gen 2, 5x USB 3.2 Gen 1, 6x RS-232/422/485 (w/ 2x internal)
 - 4x 2.5" SATA HDD Bay and 1x mSATA. Support RAID 0, 1, 5, 10
- 1x NVMe M.2 SSD, 1x M.2 E Key for WiFi
 - Wide Operating Temperature (-25°C to 70°C)
 - 9 to 48 VDC Wide Range Power Input Supporting AT/ATX Mode
 - Fanless & Cable-less in Design
 - TPM 2.0 Supported

<div><div></div><div>New</div><div>New</div></div>		
	Superior Fanless System with LGA-1151 socket for Intel® CFL-R S Processor	
Model	RCO-6100	RCO-6122PE
CPU Support	8 th / 9 th Gen. Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP) (Core™ i7-9700E/9700TE/8700T, Core™ i5-9500E/9500TE/8500T, Core™ i3-9100E/9100TE/8100T, Pentium® G5400T, or Celeron® G4900T)	
Memory	2x 260-pin DDR4-2400/2666MHz SO-DIMM, up to 64GB (Un-buffered and Non-ECC)	
Graphic Output	1x DVI-I, 2x DisplayPort	
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)	
USB, Serial, & Digital I/O	4x USB 3.2 Gen 2 (10 Gbps), 5x USB 3.2 Gen 1 (5 Gbps), 2x USB2.0 header (internal), 6x RS-232/422/485 (2x internal), 16x isolated digital I/O	
Storage	4x 2.5" SATA HDD bay with RAID 0, 1, 5, 10 support (2x internal; 2x removable & hot-swappable), 1x mSATA (shared by 1x Mini PCIe), 1x NVMe M.2 M Key	
Internal Expansion Slot	2x Full-size mini-PCIe (1 shared by 1x mSATA), 1x M.2 E Key	
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block	
Audio	Line-out / Mic-in Phone Jack	
Operating Temperature	-25°C to 70°C (35W CPU) ; -25°C to 60°C (65W CPU)	
Certification	E-Mark, EN 50155, EN 50121-1, EN 50121-3-2	
Dimensions (WxDxH)	240 (W) x 261 (D) x 79 (H) mm	240 (W) x 261 (D) x 127.3 (H) mm
Weight	5.97 kg	7.73 kg
Universal Expansion Slot	1 (by mini PCIe interface)	3 (by mini PCIe interface)
PCI & PCI Express		1x PCI, 1x PCIe x16 2x PCIe x8 (Optional) 2x PCI (Optional)
Proprietary Module Expansion	Up to 1x Module <ul style="list-style-type: none">• DTB-D10G• DTB-M2BK• DTB-4ETH• DTB-4ETH-M12• DTB-4ETH-PWR• DTB-4ETH-PWR-M12	

ACO-3000 SERIES

- Intel® 5th Gen. Core™ processor i5-5350U, up to 2.9GHz / i3-5010U, 2.1GHz or Celeron® 3765U, 1.9GHz
- Triple Independent Display
- Support up to 6x LAN or 4x PoE by Unique Modular Design
- Multiple Expansion Capability including PCIe, PCI, and Mini PCIe
- Wide Operating Temperature (-40°C to 70°C)
- 9 to 48 VDC Wide Range Power Input Supporting AT/ATX Mode
- Power Ignition Management

<div><div></div><div></div></div>	
	Vehicle Applied Fanless System based on Intel® Broadwell-U processors
Model	ACO-3000
CPU Onboard	Intel® 5 th Gen. Core™ i5-5350U, i3-5010U, Celeron® 3765U
Memory	1x 204-pin DDR3L-1333/1600MHz SO-DIMM, up to 8GB
Graphic Output	1x DVI-I, 1x DisplayPort
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)
USB, Serial, & Digital I/O	4x RS-232/422/485, 2x USB 3.0, 2x USB 2.0, 8x isolated digital I/O
Storage	2x 2.5" SATA HDD Bay (1x internal, 1x removable) with RAID 0, 1, 5, 10 support, and 2x mSATA (shared by 2x Mini PCIe)
Internal Expansion Slot	2x Full-size mini-PCIe (shared with mSATA)
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block
Ignition Management	Delay On/Off, Battery Level Monitoring
Audio	Speaker-out / Mic-in Phone Jack
Operating Temperature	-40 °C to 70 °C
Certification	E-Mark, EMC Conformity with EN50155 & EN50121-3-2
Dimensions (WxDxH)	185 x 197 x 57.4 mm
Weight	2.16 - 2.54 kg
Universal Expansion Slot (front)	1
Proprietary Module Expansion	Up to 1x Module <ul style="list-style-type: none">• DTB-4LAN• DTB-4LAN-PWR• DTB-4LAN-M12• DTB-4LAN-PWR-M12



HIGH-PERFORMANCE IN-VEHICLE FANLESS COMPUTER

HIGH-PERFORMANCE MACHINE VISION COMPUTER







ACO-6000 SERIES

VCO-6000 SERIES

- Support 6th/7th Gen. Intel® Core™ i7/i5/i3 or Pentium® / Celeron® Desktop Processor
 - Triple Independent Display
 - Support up to 18x LAN or 16x PoE by Unique Modular Design
 - Multiple Expansion Capability including PCIe, PCI, and Mini PCIe
- Wide Operating Temperature [-25°C to 70°C]
 - 9 to 48 VDC Wide Range Power Input Supporting AT/ATX Mode
 - TPM 2.0 Supported
 - Power Ignition Management

- Support 6th/7th Gen. Intel® Core™ i7/i5/i3 or Pentium® / Celeron® Desktop Processor
- Triple Independent Display
- Multiple Expansion Capability including up to 3x PCIe or 4x PCI
- Fanless Design Structure and Support Additional Fan Module
- Wide Operating Temperature [-25°C to 70°C]
- 9 to 50 VDC Wide Range Power Input Supporting AT/ATX Mode
- TPM 2.0 Supported

<div><div>intel[®]</div><div>Skylake-S Kaby Lake</div></div> <div></div>			
	Surveillance Applied Fanless System with LGA-1151 socket for Intel® KabyLake & Skylake-S processors	With 16 GbE in RJ-45 or M12 connectors with PoE option.	With one PCI or PCIe x16 expansion slot
Model	ACO-6000	ACO-6010	ACO-6011x
CPU Support	Intel® 6 th /7 th Gen. (KabyLake & Skylake-S) Desktop Processor (Core™ i7-7700T/6700TE, Core™ i5-7500T/6500TE, Core™ i3-7101TE/6100TE, Pentium® G4400TE, or Celeron® G3900TE)		
Memory	2x 260-pin DDR4-1866/2133MHz SO-DIMM, up to 32GB		
Graphic Output	1x DVI-I, 2x DisplayPort		
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)		
USB, Serial, & Digital I/O	6x USB 3.0, 2x USB 2.0 (Internal), 5x RS-232/422/485 (w/ 3x internal), 16x isolated digital I/O		
Storage	4x 2.5" SATA HDD Bays with RAID 0, 1, 5, 10 support (2x internal, 2x removable), 2x mSATA (shared by 2x Mini PCIe)		
Internal Expansion Slot	3x Full-size mini-PCIe (shared with mSATA)		
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block		
Audio	Speaker-out / Mic-in Phone Jack		
Operating Temperature	-25 °C to 70 °C		
Certification	E-Mark, EMC Conformity with EN50155 & EN50121-3-2		
Dimensions (WxDxH)	240 x 261 x 79 mm	240 x 261 x 100 mm	240 x 261 x 107 mm
Weight	3.94 ~ 4.98 kg	5.34 ~ 6.82 kg	5.14 ~ 6.21 kg
Universal Expansion Slot (front)	2 (ACO-6000)	2	2
Universal Expansion Slot (rear)	0	2	1
1x PCIe x16			ACO-6011E
1x PCI			ACO-6011P
Proprietary Module Expansion	Up to 2x Module <ul style="list-style-type: none">• DTB-D10G• DTB-4ETH• DTB-4ETH-PWR• DTB-4ETH-M12• DTB-4ETH-PWR-M12	Up to 4x Module <ul style="list-style-type: none">• DTB-4ETH• DTB-4ETH-PWR• DTB-4ETH-M12• DTB-4ETH-PWR-M12	Up to 2x Module <ul style="list-style-type: none">• DTB-D10G• DTB-4ETH• DTB-4ETH-PWR• DTB-4ETH-M12• DTB-4ETH-PWR-M12

<div><div>intel[®]</div><div>Skylake-S Kaby Lake-S</div></div> <div></div>						
	Macine Vision System based on Intel® Kaby Lake & Skylake-S	With one PCI or PCIe expansion slot	With two PCI or PCIe expansion slot	With three PCI or PCIe expansion slot	With four PCI or PCIe expansion slot	With five PCI or PCIe expansion slot
Model	VCO-6000	VCO-6011x	VCO-6022x	VCO-6033x	VCO-6044x	VCO-6055C
CPU Support	Intel® 6 th /7 th Gen. (Kaby Lake & Skylake-S) Desktop Processor (Core™ i7-7700T/6700TE, Core™ i5-7500T/6500TE, Core™ i3-7101TE/6100TE, Pentium® G4400TE, or Celeron® G3900TE)					
Memory	2x DDR4-1866/2133MHz SO-DIMM, up to 32GB					
Graphic Output	1x DVI-I, 2x DisplayPort					
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)					
USB, Serial, & Digital I/O	4x USB 3.0, 4x RS-232/422/485 (w/ 2x internal), 16x isolated digital I/O					
Storage	2x Removable 2.5" SATA HDD Bay with RAID 0, 1, 5, 10 support, 2x mSATA (shared by 2x Mini PCIe), 1x CFast					
Internal Expansion Slot	3x Full-size Mini-PCIe (Share by 2x mSATA)					
Power	9-50 VDC, AT/ATX Select, 3-pin Terminal Block					
Audio	Speaker-out / Mic-in Phone Jack					
Operating Temperature	-25 °C to 70 °C					
Dimensions (WxDxH)	77 x 256 x 240 mm	117 x 256 x 240 mm	137 x 256 x 240 mm	157 x 256 x 240 mm	177 x 256 x 240 mm	197 x 256 x 240 mm
Weight	3.83 kg	5.29 kg	5.34 ~ 5.39 kg	5.42 ~ 5.86 kg	5.94 ~ 6.02 kg	6.21 kg
1x PCIe x16		VCO-6011E				
1x PCI		VCO-6011P				
2x PCIe x8			VCO-6022E			
2x PCI			VCO-6022P			
1x PCIe x16 & 1x PCI			VCO-6022C			
2x PCIe x1 & 1x PCIe x16				VCO-6033E		
1x PCIe x16 & 2x PCI				VCO-6033C		
3x PCI				VCO-6033P		
2x PCIe x4 & 1x PCIe x8 & 1x PCI					VCO-6044C	
4x PCI					VCO-6044P	
2x PCIe x4 & 1x PCIe x8 & 2x PCI						VCO-6055C



HIGH-PERFORMANCE MACHINE VISION COMPUTER

VCO-6100

SERIES

- Support 8th / 9th Gen. Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP)
- Intel® Q370 chipset
- 2x DDR4 2400/2666Hz SODIMM. Max. up to 64GB (Un-buffered and Non-ECC)
- Triple Independent Display by 1x DVI-I and 2x DisplayPort
- 2x External 2.5” SATA HDD bay with RAID 0, 1 support, 1x mSATA (shared by 1x Mini PCIe), 2x M.2
- Wide Operating Temperature (-25°C to 70°C)
- 9 to 48 VDC Wide Range Power Input Supporting AT/ATX Mode
- Unique Expansion Module Design to Support 1 to 5 Expansion Cards
- TPM 2.0 Supported



New



New

	With two PCI or PCIe expansion slot	With three PCI or PCIe expansion slot
Model	VCO-6122x	VCO-6133x
CPU Support	Support 8 th / 9 th Gen. Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP) [Core™ i7-9700E/9700TE/8700T, Core™ i5-9500E/9500TE/8500T, Core™ i3-9100E/9100TE/8100T, Pentium® G5400T, or Celeron® G4900T]	
Memory	2x 260-pin DDR4-2400/2666MHz SO-DIMM, up to 64GB (Un-buffered and Non-ECC)	
Graphic Output	1x DVI-I, 2x DisplayPort	
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)	
USB, Serial, & Digital I/O	4x USB 3.2 Gen 2, 4x USB 3.2 Gen 1 (internal), 6x RS-232/422/485 (4x internal), 16x isolated digital I/O	
Storage	2x 2.5” SATA HDD bay with RAID 0, 1 support (2x removable & hot-swappable), 1x mSATA (shared by 1x Mini PCIe), 1x NVMe M.2 M Key	
Internal Expansion Slot	2x Full-size mini-PCIe (1 shared by 1x mSATA), 1x M.2 E Key	
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block	
Audio	Line-out / Mic-in Phone Jack	
Operating Temperature	-25°C to 70°C (35W CPU); -25°C to 60°C (65W CPU)	
Dimensions (WxDxH)	137 x 340 x 240 mm	157 x 340 x 240 mm
Weight	4.21 Kg	4.26 Kg
2x PCIe x8	VCO-6122E	
2x PCI	VCO-6122P	
1x PCIe x16 & 1x PCI	VCO-6122C	
2x PCIe x1 & 1x PCIe x16		VCO-6133E
1x PCIe x16 & 2x PCI		VCO-6133C
3x PCI		VCO-6133P



IP65/IP67 WATERPROOF SYSTEM

WCO

SERIES

- Intel® 7th Gen. Intel® Core™ i5 / i3 Processor
- Full system IP65/IP67 level dustproof & waterproof
- Wide Operating Temperature (up to -40°C to 70°C)
- 9 to 50 VDC Wide Range Power Input
- Lockable M12 I/O Connectors
- Fanless Design



	IP65/IP67 Waterproof System with Intel® Kaby Lake-U processor
Model	WCO-3400
CPU Support	Intel® 7 th Gen. (Kaby Lake-U) Processor Core™ i5-7300U, Core™ i3-7100U
Memory	1x DDR4-1866/2133MHz SO-DIMM, up to 16GB
Graphic Output	1x VGA (Waterproof connector)
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE) by M12 X-Code 8-pin
USB	1x USB 3.0 (Waterproof connector), 2x USB 2.0 by M12 D-Code 8-pin
Serial	1x RS-232/422/485 by M12 D-Code 8-pin
Storage	1x internal 2.5” SATA HDD Bay with RAID 0, 1 support, 1x mSATA (shared by 1x Mini PCI Express)
Internal Expansion Slot	2x Full-size mini-PCIe
Power	9-50 VDC, M12 A-code 4-pin
Operating Temperature	-40 °C to 70 °C
Dimensions (WxDxH)	231 x 292 x 56.5 mm
Weight	4.18KG
IP65	WCO-3400
IP67	WCO-3400-IP67

GPU SERIES

Premio's Industrial GPU Computing System is the ideal solution for Machine Vision, Edge Computing, Traffic Vision, Telemedicine, Intelligent Control, Deep Learning, Artificial Intelligence, Voice Recognition and any application workloads requiring intensive processing parallelism and performance driven analytics for Industry 4.0/IoT applications.



	RCO-6020-1050TI Industrial GPU Computer With 6 th /7 th Gen Intel® Core™ Processor And Q170 PCH, GTX 1050 TI Integrated	VCO-6020-1050TI Industrial GPU Computer With 6 th /7 th Gen Intel® Core™ Processor And Q170 PCH, GTX 1050 TI Integrated	VCO-6033E-2PWR Industrial GPU Computer With 6 th /7 th Gen Intel® Core™ Processor And Q170 PCH, Supports Up To RTX 2060 Super GPU
Model	RCO-6020-1050TI	VCO-6020-1050TI	VCO-6033E-2PWR
CPU Support	Intel® 6 th /7 th Gen. (Kabylake & Skylake-S) Desktop Processor (Core™ i7-7700T/6700TE, Core™ i5-7500T/6500TE, Core™ i3-7101TE/6100TE, Pentium® G4400TE, or Celeron® G3900TE)		
Memory	2x DDR4-1866/2133MHz SO-DIMM, up to 32GB		
Graphic Output	2x DVI-I, 3x DisplayPort, 1x HDMI		1x DVI-I, 2x DisplayPort
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)		
USB	6x USB 3.0, 2x USB 2.0	4x USB 3.0	
Serial & Digital I/O	4x RS-232/422/485 (2x internal), 16x isolated digital I/O		
Storage	4x 2.5" SATA HDD Bay with RAID 0, 1, 5, 10 support (2x internal, 2x removable), 2x mSATA (shared by 2x Mini PCIe)	2x Removable 2.5" SATA HDD Bay with RAID 0, 1, 5, 10 support, 2x mSATA (shared by 2x Mini PCIe), 1x CFast	
Internal Expansion Slot	4x Full-size mini-PCIe (shared with 2x mSATA)	3x Full-size mini-PCIe (shared with mSATA)	
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block	9-50 VDC, AT/ATX Select, 3-pin Terminal Block	System: 9-50 VDC, GPU: 24 VDC, AT/ATX Select
Audio	Speaker-out / Mic-in Phone Jack		
Operating Temperature	-25 °C to 60 °C		-25 °C to 70 °C
Dimensions (WxDxH)	240 x 261 x 127 mm	137 x 256 x 240 mm	137 x 256 x 240 mm
Weight	7.76 kg	7.71 kg	8.34 kg
Universal Expansion Slot (front)	2		
PCIe x4 (1-lane)			1

MORE INFO



	RCO-6120-2060S AI Edge Inference Computer With 9 th Gen Intel Core Processor And Q370 PCH, RTX 2060 Super Integrated		VCO-6133E-2PWR AI Edge Inference Computer With 8 th /9 th Gen Intel® Core™ Processor, 3x PCIe Expansion, Dual Power Input
Model	RCO-6120-2060S		VCO-6133E-2PWR
CPU Support	8 th / 9 th Gen. Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP) (Core™ i7-9700E/9700TE/8700T, Core™ i5-9500E/9500TE/8500T, Core™ i3-9100E/9100TE/8100T, Pentium® G5400T, or Celeron® G4900T)		
Memory	2x DDR4-2400/2666MHz SO-DIMM, up to 64GB (Un-buffered and Non-ECC)		
Graphic Output	1x DVI-I, 1x DVI-D, 1x HDMI, 3x DisplayPort		1x DVI-I, 2x DisplayPort
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)		
USB	4x USB 3.2 Gen 2 (10 Gbps) ; 5x USB 3.2 Gen 1 (5 Gbps) ; 2x USB 2.0 header (internal)		
Serial & Digital I/O	4x RS-232/422/485 (2x internal), 16x isolated digital I/O		
Storage	4x 2.5" SATA HDD bay with RAID 0, 1, 5, 10 support (2x internal; 2x removable & hot-swappable), 1x mSATA (shared by 1x Mini PCIe), 2x M.2		
Internal Expansion Slot	2x Full-size mini-PCIe (1 shared by 1x mSATA)		
Power	9-48 VDC, GPU: 18-34 VDC, AT/ATX Select, 3-pin Terminal Block		9-48 VDC, GPU: 18-34 VDC, AT/ATX Select, 3-pin Terminal Block, 4-pin Terminal Block
Audio	Line-out / Mic-in Phone Jack		
Operating Temperature	-25 °C to 60 °C		
Certification	E-Mark, EN 50155, EN 50121-1, EN 50121-3-2		
Dimensions (WxDxH)	240 x 261 x 79.2 mm		157 x 340 x 240 mm
Weight	8.1 kg		8.34 kg
Universal Expansion Slot (front)	1 (by mini PCIe interface)		
PCIe x16	1x PCIe x16 for GPU Card		1x PCIe x16
PCIe x4 (1-lane)			1 PCIe x4



Performance and Storage at the Rugged Edge

AI Edge Inference Computer is among a new generation of edge computers. Featured with the latest technologies, it offers new benchmark performance for mission-critical data . The next generation of edge computers push capabilities of AI and machine learning for real-time intelligence for applications taking advantage of computer visions for industrial automation, surveillance, vehicle telematics, and metrology.




Coming Soon




Coming Soon

	Support 8 th / 9 th Gen. Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP) (Core™ i7-9700E/9700TE/8700T, Core™ i5-9500E/9500TE/8500T, Core™ i3-9100E/9100TE/8100T, Pentium® G5400T, or Celeron® G4900T)	
Model	RCO-6141E-4U2C-2060S	RCO-6141E-4U2C-HWR
Memory	2x 260-pin DDR4-2400/2666MHz SO-DIMM, up to 64GB (Un-buffered and Non-ECC)	
GPU	RTX 2060S	0
Graphic Output	1x DVI-I, 1x DVI-D, 1x HDMI, 3x DisplayPort	1x DVI-I, 2x DisplayPort
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)	
USB, Serial, & Digital I/O	4x USB 3.2 Gen 2 (10 Gbps), 5x USB 3.2 Gen 1 (5 Gbps), 2x USB2.0 header (internal), 6x RS-232/422/485 (2x internal), 16x isolated digital I/O	
SATA Storage	4x 2.5" SATA HDD bay with RAID 0, 1, 5, 10 support (2x internal; 2x removable & hot-swappable), 1x mSATA (shared by 1x Mini PCIe)	
NVMe Storage	1x NVMe M.2 M Key, 1x Removable Module with 2.5" 4 Bay U.2 NVMe SSD (7mm) *Patented NVMe drives trays are toolless and hot-swappable	1x NVMe M.2 M Key, 2x Removable 2 Bay NVMe SSD Module with Hardware RAID 0, 1, 5, 6, 10 support (15mm) *Patented NVMe drives trays are toolless and hot-swappable
Internal Expansion Slot	2x Full-size mini-PCIe (1 shared by 1x mSATA), 1x M.2 E Key	
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block and 4-pin Terminal Block	
Audio	Line-out / Mic-in Phone Jack	
Operating Temperature	-25°C to 60°C (65W / 35W CPU)	
Certification	E-Mark, EN 50155, EN 50121-1, EN 50121-3-2	
Dimensions (WxDxH)	261 x 240 x 148 mm	
Weight	9.9 kg	
Universal expansion slot	1x (By mini PCIe interface)	
PCI Express	1x PCIe x4 (x1 Lane)	
Proprietary Module Expansion	Up to 1x Module <ul style="list-style-type: none">DTB-D10GDTB-M2BKDTB-4ETHDTB-4ETH-M12DTB-4ETH-PWRDTB-4ETH-PWR-M12	





Coming Soon



New

	Support 8 th / 9 th Gen. Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP) (Core™ i7-9700E/9700TE/8700T, Core™ i5-9500E/9500TE/8500T, Core™ i3-9100E/9100TE/8100T, Pentium® G5400T, or Celeron® G4900T)	
Model	RCO-6141E-8U2C-SWR	VCO-6131E-4M2
Memory	2x 260-pin DDR4-2400/2666MHz SO-DIMM, up to 64GB (Un-buffered and Non-ECC)	
GPU	0	RTX 2060S
Graphic Output	1x DVI-I, 2x DisplayPort	1x DVI-I, 2x DisplayPort
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)	
USB, Serial, & Digital I/O	4x USB 3.2 Gen 2 (10 Gbps), 5x USB 3.2 Gen 1 (5 Gbps), 2x USB2.0 header (internal), 6x RS-232/422/485 (2x internal), 16x isolated digital I/O	4x USB 3.2 Gen 2 (10 Gbps) ; 5x USB 3.2 Gen 1 (5 Gbps) 2x USB 2.0 header (internal), 4x RS-232/422/485 (2x internal), 16x isolated digital I/O
SATA Storage	4x 2.5" SATA HDD bay with RAID 0, 1, 5, 10 support (2x internal; 2x removable & hot-swappable), 1x mSATA (shared by 1x Mini PCIe)	4x 2.5" SATA HDD bay with RAID 0, 1, 5, 10 support (2x internal; 2x removable & hot-swappable), 1x mSATA (shared by 1x Mini PCIe)
NVMe Storage	1x NVMe M.2 M Key, 2x Removable 4 Bay NVMe SSD Module with RAID 0, 1, 5, 10 support (7mm) *Patented NVMe drives trays are toolless and hot-swappable	1x NVMe M.2 M Key 4x Bay Hotswappable M.2 NVMe Drive trays (M Key, NVMe PCIe x4=, 2280) *Patented NVMe drives trays are toolless and hot-swappable
Internal Expansion Slot	2x Full-size mini-PCIe (1 shared by 1x mSATA), 1x M.2 E Key	
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block and 4-pin Terminal Block	9-48 VDC, GPU: 18-34 VDC, AT/ATX Select, 3-pin Terminal Block
Audio	Line-out / Mic-in Phone Jack	
Operating Temperature	-25°C to 60°C (65W / 35W CPU)	
Certification	E-Mark, EN 50155, EN 50121-1, EN 50121-3-2	
Dimensions	261 x 240 x 168 mm	157 x 340 x 240 mm
Weight	9.9 kg	9.5 kg
Universal expansion slot	1x (By mini PCIe interface)	
PCI Express	1x PCIe x4 (x1 Lane)	1x PCIe x4 (1-lane),1x PCIe x16 (8-lane) for GPU card & 4x M.2 PCIe x2
Proprietary Module Expansion	Up to 1x Module <ul style="list-style-type: none">DTB-D10GDTB-M2BKDTB-4ETHDTB-4ETH-M12DTB-4ETH-PWRDTB-4ETH-PWR-M12	



ETHERNET MODULE SERIES

Premio provides ethernet daughterboard modules that integrate easily into Premio embedded and edge computers through standard PCIe protocols. These flexible add-in modules provide additional ethernet I/O ports and scalable connectivity for IoT deployments that require ethernet connections in multiple RJ45 and M12 locking connectors. Both RJ45 and M12 locking connector modules can also provide PoE+ (IEEE 802.3at) for data and power through single cable. These add-in daughterboard modules complement our fanless design architecture in order to provide mission-critical reliability and connectivity for a variety of IoT applications. Popular IoT workloads that leverage these add-in ethernet modules include: security and surveillance, kiosks, railway, vehicle telematics, and industrial automation. Please consult our embedded experts to help select the best module for your IoT demands.



New

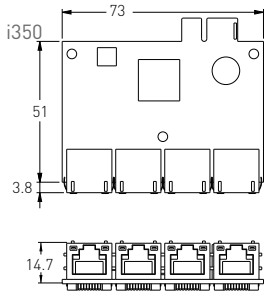


New



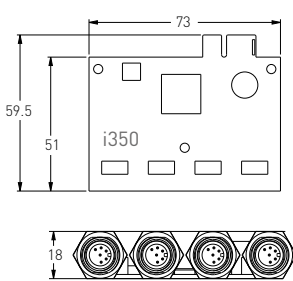
DTB-4ETH

- Intel® Ethernet Controller I350
- 1x PCIe x4 Gold finger (x4 Lane)
- 4x 1GbE LAN, RJ45 Port
- Support Power over Ethernet by an optional PoE module



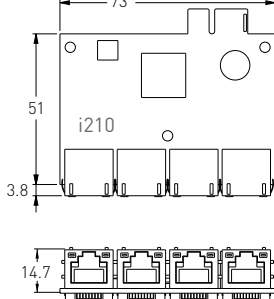
DTB-4ETH-M12

- Intel® Ethernet Controller I350
- 1x PCIe x4 Gold finger (x4 Lane)
- 4x 1GbE LAN, M12 Port
- Support Power over Ethernet by an optional PoE module



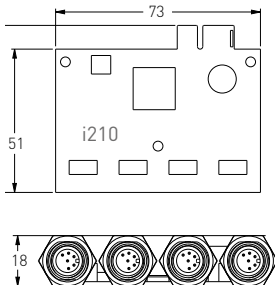
DTB-4LAN

- Intel® Ethernet Controller I210
- 1x PCIe x1 Gold finger
- 4x 1GbE LAN, RJ45 Port
- Support Power over Ethernet by an optional PoE module



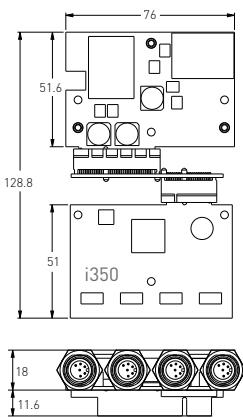
DTB-4LAN-M12

- Intel® Ethernet Controller I210-AT
- 1x PCIe x1 Gold finger
- 4x 1GbE LAN, M12 Port
- Support Power over Ethernet by an optional PoE module



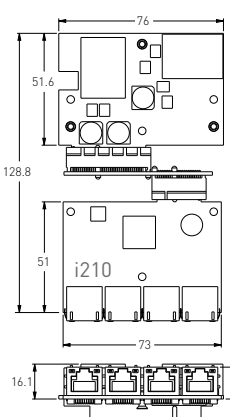
DTB-4ETH-PWR-M12

- up to 25.2 watt per port
- Complies with IEEE 802.3at



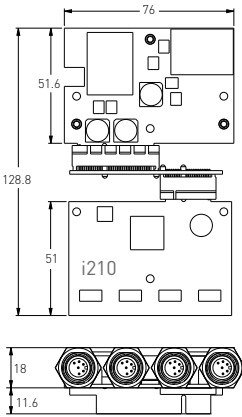
DTB-4LAN-PWR

- up to 25.2 watt per port
- Complies with IEEE 802.3at



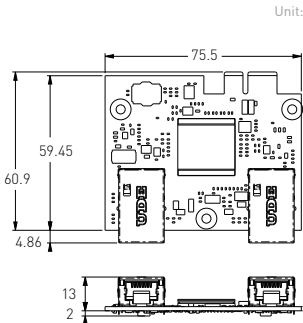
DTB-4LAN-PWR-M12

- up to 25.2 watt per port
- Complies with IEEE 802.3at



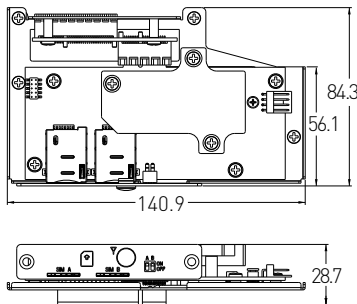
DTB-D10G

- Intel® Ethernet Controller X710-AT2
- 1x PCIe x1 Gold finger (x4 Lane)
- 2x 10GbE LAN, RJ45 Port



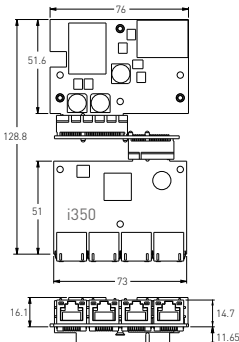
DTB-M2BK

- 1x PCIe x1 Gold finger (x4 Lane)
- 2x SIM slot
- 1x SIM switch
- Support 5G Module by M.2 B Key (3042, 3052)



DTB-4ETH-PWR

- up to 25.2 watt per port
- Complies with IEEE 802.3at



COMPATIBLE LIST

DTB-D10G

DTB-M2BK

DTB-4ETH DTB-4ETH-PWR

RCO-3000
RCO-3400
RCO-3700
ACO-3000
RCO-6000
ACO-6000
RCO-6100

•

•

• (DTB-4ETH Only)

•

•

COMPATIBLE LIST

DTB-4ETH-M12 DTB-4ETH-PWR-M12

DTB-4LAN DTB-4LAN-PWR

DTB-4LAN-M12 DTB-4LAN-PWR-M12

RCO-3000
RCO-3400
RCO-3700
ACO-3000
RCO-6000
ACO-6000
RCO-6100

• (DTB-4ETH-M12 Only)

•

•

•

•

•

•

•

•

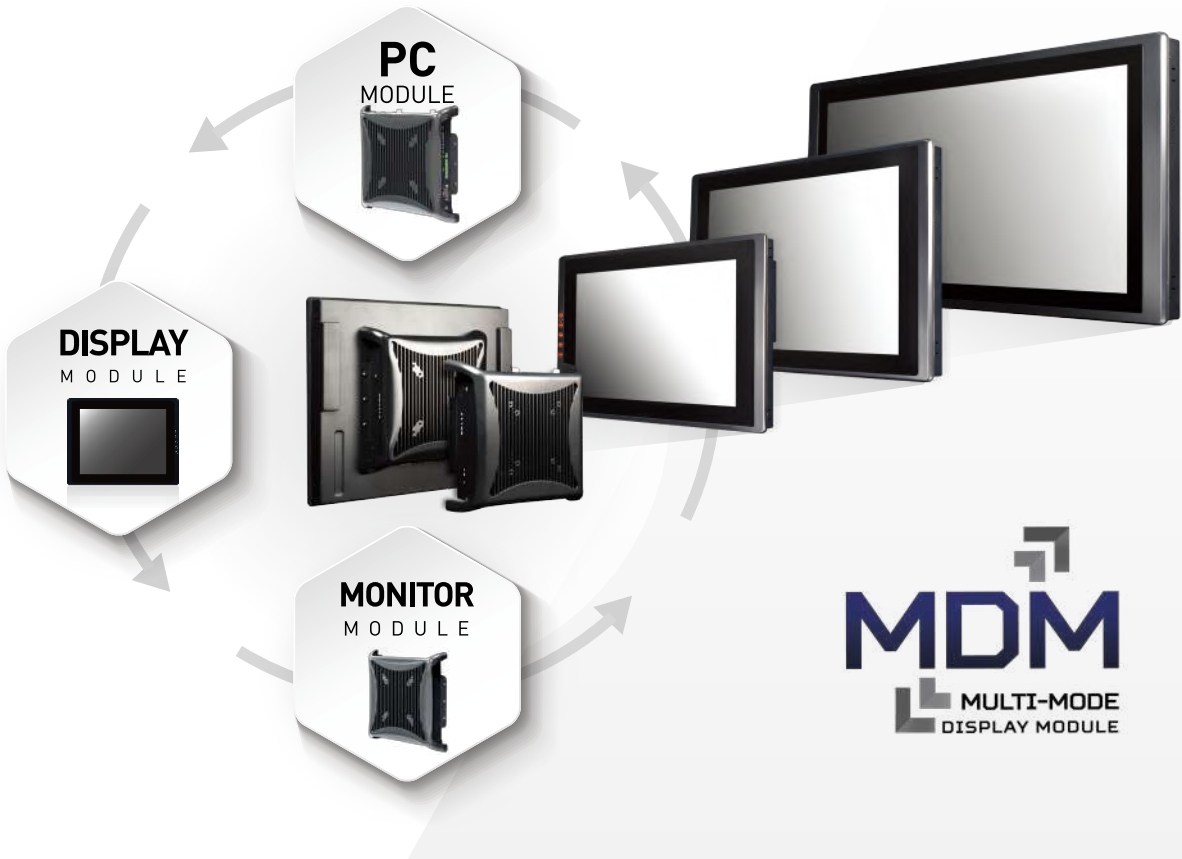
•

•

INDUSTRIAL DISPLAY SYSTEMS

PREMIO OWN PATENT FOR INDUSTRIAL DISPLAY SYSTEM

Premio's Industrial display system is based on modularized design concept which offers widely configuration. More flexible and scalable.



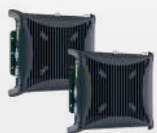
Scalability in Panel Sizes
10.4" / 12.1" / 15" / 15.6"
17" / 19" / 21.5"
4:3 / 16:9



Flexibility in Touch Screen
Resistive Touch
Capacitive Touch



Different Frame Options
Standard Frame
Thin Frame



Different System Options
PC Modules
Monitor Modules



Diverse Platform Options
Intel® Bay Trail
Intel® Broadwell-U
Intel® Kaby Lake-U



Easy Installation & Maintenance
MDM offers user-friendly mechanical design. Just three steps, a system ready for multiapplications



PREMIO INDUSTRIAL DISPLAY SYSTEMS

PRODUCT FAMILY

 System Module <u>PC400 Series</u> KabyLake-U <u>PC300 Series</u> Broadwell-U <u>PC100 Series</u> Bay Trail <u>MX200 Series</u> <u>MX100 Series</u>	 IP66 / IP69 Panel PC <u>SIO-200</u> Bay Trail <u>WIO-W221C</u> KabyLake-U	 Panel PC <u>VIO-200/PC400 Series</u> KabyLake-U Thin Frame <u>VIO-200/PC300 Series</u> Broadwell-U Thin Frame <u>VIO-200/PC100 Series</u> Bay Trail Thin Frame	 Display Module <u>VIO-200 Series</u> Thin Frame	 Touch Monitor <u>VIO-200/MX100 Series</u> Thin Frame
---	--	---	---	---



INDUSTRIAL PANEL PC

VIO-200/PC400 SERIES

- 7th Generation Intel® Core i5/i3 Processor onboard (Kabylake-U)
- 12.1" ~ 21.5" Thin Frame Multi-functional All-in-One Panel PCs
- Projected Capacitive and 5-wire Resistive Touchscreen Available
- Triple Independent Display support by VGA, DisplayPort, and LVDS
- Rich in I/O Features with up to 6x RS-232/422/485, 4x USB 3.0, 2x Full-size Mini PCIe, 2x LAN, 8x DI & 8x DO, CFast
- Compatible with All Premio VIO Series Display Module
- Aluminum Die-casting Front Frame
- Front Panel IP65 Rating



	Thin Frame Industrial Panel PC based on Intel® Kabylake-U processors	Thin Frame Industrial Panel PC based on Intel® Kabylake-U processors with 2x universal I/O bracket				
Model	VIO-200/PC400	VIO-200/PC410				
CPU Onboard	Intel® 7 th Gen. (Kabylake-U) Processor Core™ i5-7300U, Core™ i3-7100U					
Memory	1x 260-Pin DDR4 1866/2133MHz SODIMM. Max. up to 16GB					
Graphic Output	1x VGA, 1x DisplayPort, 1x Dual Channel 24 bit LVDS					
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)					
USB, Serial, & Digital I/O	4x USB 3.0, up to 6x RS-232/422/485, 16x isolated digital I/O					
Storage	1x 2.5" SATA HDD Bay with RAID 0, 1 support, 1x mSATA (shared by 1x Mini PCIe, and 1x CFast (shared by 1x mSATA)					
Internal Expansion Slot	2x Full-size Mini PCIe					
Power	9-50 VDC, AT/ATX Select, 3-pin Terminal Block					
Audio	Line-out / Mic-in Phone Jack					
Operating Temperature	-10 °C to 60 °C -10 °C to 50 °C (19" Panel PC only)					
LCD Size	<table><tr><td>4:3</td><td>12.1" / 15" / 17" / 19"</td></tr><tr><td>16:9</td><td>15.6" / 21.5"</td></tr></table>		4:3	12.1" / 15" / 17" / 19"	16:9	15.6" / 21.5"
4:3	12.1" / 15" / 17" / 19"					
16:9	15.6" / 21.5"					
Touch Type	Resistive 5-wire Touch / Projected Capacitive Touch					
Universal Expansion Slot	0	2				



INDUSTRIAL TOUCH MONITOR

VIO-200/MX100 or MX200 SERIES

- 12.1" ~ 21.5" 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



	Thin Frame Industrial Touch Monitor						
Model	VIO-200/MX100	VIO-200/MX200	New				
Touch Type	Resistive / Capacitive Touch						
VGA Input	1x VGA Input						
DVI-D / HDMI	1x DVI-D Input	1x HDMI Input (optional)					
DisplayPort Input	1x DisplayPort Input						
USB 2.0 Input	1x USB 2.0 Input						
COM Port Input	1x COM Port Input / Resistive						
Audio Input	1x Audio Input						
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block						
Operating Temperature	-10 °C to 60 °C -10 °C to 50 °C (19" Touch Monitor only)						
LCD Size	<table><tr><td>4:3</td><td>10.4" / 12.1" / 15" / 17" / 19"</td></tr><tr><td>16:9</td><td>15.6" / 21.5"</td></tr></table>			4:3	10.4" / 12.1" / 15" / 17" / 19"	16:9	15.6" / 21.5"
4:3	10.4" / 12.1" / 15" / 17" / 19"						
16:9	15.6" / 21.5"						



PC MODULE

INDUSTRIAL TOUCH MONITOR

PC100 SERIES







- Intel® Celeron® J1900 Processor (Quad Core, 2.0GHz)
- Dual Independent Display support by VGA and DisplayPort
- Rich I/O Features including the Support up to 6x RS-232/422/485, 1x USB 3.0, 3x USB 2.0, 2x Full-size Mini PCIe, 2x LAN, 8x DI & 8x DO
- Power Ignition Management Built-in
- Wide Operating Temperature (-40°C to 70°C)
- 9 to 50 VDC Wide Range Power Input supporting AT/ATX Mode
- Compatible with All Premio VIO Series Display Module
- Aluminum Die-casting Front Frame
- Front Panel IP65 Rating




PC300 SERIES

- 5th Generation Intel® Core i5/i3/Celeron Processor onboard (Broadwell-U)
- Triple Independent Display support by VGA, DisplayPort, and LVDS
- Rich I/O Features including the Support 4x RS-232/422/485, 3x USB 3.0, 1x USB 2.0, 2x Full-size Mini PCIe, 2x LAN, 4x DI & 4x DO
- Multiple Expansion Capability including PCIe, PCI, Mini PCIe
- Wide Operating Temperature (-40°C to 60°C)
- Power Ignition Management
- Compatible with All Premio VIO Series Display Module
- Aluminum Die-casting Front Frame
- Front Panel IP65 Rating

PC400 SERIES

- 7th Generation Intel® Core i5/i3 Processor onboard (Kabylake-U)
- Triple Independent Display support by VGA, DisplayPort, and LVDS
- Rich in I/O Features with up to 6x RS-232/422/485, 4x USB 3.0, 2x Full-size Mini PCIe, 2x LAN, 8x DI & 8x DO, CFast
- Wide Operating Temperature (-40°C to 70°C)
- Compatible with All Premio VIO Series Display Module
- Aluminum Die-casting Front Frame
- Front Panel IP65 Rating

<div><div></div><div></div></div>				
	PC Module based on Intel® Bay Trail processors	PC Module based on Intel® Bay Trail processors and with two universal I/O bracket	PC Module based on Intel® Broadwell-U processors	PC Module based on Intel® Broadwell-U processors with one PCI or PCIe x4 expansion slot
Model	PC100	PC110	PC300	PC311x
CPU Onboard	Intel® Celeron® J1900		Intel® Core™ i5-5350U, i3-5010U, Celeron® 3765U	
Memory	1x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB		1x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	
Graphic Output	1x VGA, 1x DisplayPort		1x VGA, 1x DisplayPort, 1x Dual Channel 24 bit LVDS	
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)		2x GbE RJ45 (Support Wake-on-LAN and PXE)	
USB, Serial, & Digital I/O	1x USB 3.0, 3x USB 2.0, 6x RS-232/422/485 (w/ 2x internal), 16x isolated digital I/O		3x USB 3.0, 1x USB 2.0, 4x RS-232/422/485 (w/ 2x internal), 8x isolated digital I/O	
Storage	1x 2.5" SATA HDD Bay, 1x mSATA (shared by 1x Mini PCIe), and 1x CFast (shared by 1x mSATA & 1x Mini PCIe)		1x 2.5" SATA HDD Bay with RAID 0, 1, 5 support and 2x mSATA (shared by 2x Mini PCIe)	
Internal Expansion Slot	1x Full-size Mini PCIe Socket with USIM Socket (PCIe + USB + SATA) 1x Full-size Mini PCIe Socket with USIM Socket (PCIe + USB)		2x Full-size mini-PCIe	
Power	9-50 VDC, AT/ATX Select, 3-pin Terminal Block		9-48 VDC, AT/ATX Select, 3-pin Terminal Block	
Audio	Line-out / Mic-in Phone Jack		Speaker-out / Mic-in Phone Jack	
Operating Temperature	-40 °C to 70 °C		-40 °C to 60 °C	
Universal Expansion Slot	0	2	0 (VIO-100/PC300)	1
1x PCIe x4				VIO-100/PC311E
1x PCI				VIO-100/PC311P

<div><div></div></div>		
	PC Module based on Intel® Kabylake-U processors	PC Module based on Intel® Kabylake-U processors with two universal I/O bracket
Model	PC400	PC410
CPU Onboard	Intel® 7 th Gen. (Kabylake-U) Processor Core™ i5-7300U, Core™ i3-7100U	
Memory	1x 260-Pin DDR4 1866/2133MHz SODIMM. Max. up to 16GB	
Graphic Output	1x VGA, 1x DisplayPort, 1x Dual Channel 24 bit LVDS	
LAN	2x GbE RJ45 (Support Wake-on-LAN and PXE)	
USB, Serial, & Digital I/O	4x USB 3.0, up to 6x RS-232/422/485, 16x isolated digital I/O	
Storage	1x 2.5" SATA HDD Bay with RAID 0, 1 support, 1x mSATA (shared by 1x Mini PCIe, and 1x CFast (shared by 1x mSATA)	
Internal Expansion Slot	2x Full-size Mini PCIe	
Power	9-50 VDC, AT/ATX Select, 3-pin Terminal Block	
Audio	Line-out / Mic-in Phone Jack	
Operating Temperature	-40°C to 70°C	
Universal Expansion Slot	0	2



MX100 SERIES

MX200 SERIES

- Configure System by Demand
- 9 to 48 VDC Wide Range Power Input
- Aluminum Die-casting Front Frame
- Front Panel IP65 Rating



	Monitor Module	
Model	MX100	MX200
VGA Input	1x VGA Input	
DVI-D / HDMI	1x DVI-D Input	1x HDMI Input (optional)
Display Port Input	1x DisplayPort Input	
USB 2.0 Input	1x USB 2.0 Input	
COM Port Input	1x COM Port Input (Resistive Touch Only)	
Audio Input	1x Audio Input	
Power	9-48 VDC, AT/ATX Select, 3-pin Terminal Block	
Operating Temperature	-10 °C to 60 °C	

VIO-100 SERIES

Standard Frame



Model	VIO-110
LCD Size	10.4" (4:3)
Max. Resolution	800 x 600 (SVGA)
Brightness (cd/m2)	400
Contrast Ratio	700:1
LCD Color	16.2M
Pixel Pitch (mm)	0.264 (H) x 0.264 (V)
Viewing Angle (H-V)	160 / 130
Internal Speaker	AMP 5W + 5W
Touch Type	Resistive 5-wire Touch / Projected Capacitive Touch
Operating Temperature	-10°C to 60°C

VIO-200 SERIES

The Display Modules VIO-100 and VIO-200 series are compatible with PC modules PC300, PC200, and PC100 series and monitor modules MX100 series for different display sizes and touchscreens. These modules allow to be used for configuring, upgrading and maintaining your Panel PC or touch monitor.

Thin Frame



Model	VIO-212 (H)	VIO-215 (H)	VIO-W215 (H)	VIO-217 (H)	VIO-219 (H)	VIO-W221 (H)
LCD Size	12.1" [4:3]	15" [4:3]	15.6" [16:9]	17" [4:3]	19" [4:3]	21.5" [16:9]
Max. Resolution	1024 x 768 (XGA)	1024 x 768 (XGA)	1920 x 1080 (Full HD)	1280 x 1024 (SXGA)		1920 x 1080 (Full HD)
Brightness (cd/m2)	500	350	400	350	350	300
	1000 nits (Optional)					
Contrast Ratio	700:1			800:1	1000:1	5000:1
LCD Color	16.2M		16.7M	16.7M		
Pixel Pitch (mm)	0.24 (H) x 0.24 (V)	0.297 (H) x 0.297 (V)	0.17925 (H) x 0.17925 (V)	0.264 (H) x 0.264 (V)	0.294 (H) x 0.294 (V)	0.248 (H) x 0.248 (V)
Viewing Angle (H-V)	160 / 160	170 / 160	160 / 140	170 / 160		178 / 178
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 70°C	-10°C to 60°C	-10°C to 50°C	-10°C to 60°C





IP66 WATERPROOF TOUCHSCREEN COMPUTER

MORE INFO

WIO-W221C SERIES

- 21.5" TFT FHD 16:9 LCD with Projected Capacitive Touch
- Support 7th Gen. Intel® Core™ i5 / i3 Processor
- 1x 260-pin DDR3L SODIMM. Max up to 8GB
- 1x mSATA (shared by 1x Mini PCIe), 2x internal SIM socket
- Single display supported by 1x VGA (waterproof connector)
- 2x LAN by M12 X-Code 8-pin
- 1x RS-232/422/485 by M12 D-Code 8-pin
- 2x USB 3.0 (waterproof connector)
- 9 to 50 VDC wide range power input
- -10°C to 60°C extended operating temperature
- Full system IP66 compliant
- Two 10W internal speakers built-in
- Multi-language OSD built-in

<div><div></div><div><div>New</div></div></div>	
	21.5" 16:9 Full HD Capacitive Touch All-In-One IP66 Panel PC
Model	WIO-W221C
CPU Onboard	Intel® 7 th Gen. (Kaby Lake-U) Processor Core™ i5-7300U, Core™ i3-7100U
Memory	8GB DDR4 SODIMM
Graphic Output	1x Waterproof VGA
LAN	2x LAN by M12 X-Code 8-pin
USB & Serial	2x USB 3.0 (Waterproof connector), 1x RS-232/422/485 by M12 D-Code 8-pin
Storage	1x 128GB mSATA SSD
Internal Expansion Slot	1x Full-size Mini PCIe
Power	9-50 VDC, M12 A-code 4-pin
Operating Temperature	-10 °C to 60 °C
LCD Size	21.5" (16:9) Full HD
Brightness (cd/m2)	300 / 1000 (Optional)
Touch Type	Projected Capacitive Touch, 5 Points, 7H Surface Hardness








IP66/IP69K WASHDOWN TOUCHSCREEN COMPUTER

MORE INFO

SIO-200 SERIES

- 12", 15", 15.6", 21.5" TFT FHD 16:9 LCD with resistive 5-wire / projected capacitive touch
- Intel® Celeron® processor J1900, 2.0 GHz
- 1x 4GB DDR3L SODIMM, 1x 64GB mSATA
- 1x M12 LAN, 2x USB 2.0 by M12 8-pin, 1x M12 COM
- 1x Full-size Mini PCIe for expansion
- Support 110V to 240V AC power input by M12 Power Connector
- -20°C to 55°C operating temperature
- Full system IP66/IP69K with Stainless Steel SUS316 construction
- Touch Function ON/OFF Switch

<div><div></div><div><div>New</div><div>New</div><div>New</div><div>New</div></div></div>				
	12.1" (4:3), Resistive / Capacitive Touch Stainless Steel Panel PC	15" (4:3), Resistive / Capacitive Touch Stainless Steel Panel PC	15.6" (16:9), Resistive / Capacitive Touch Stainless Steel Panel PC	21.5" (16:9), Resistive / Capacitive Touch Stainless Steel Panel PC
Model	SIO-212-J1900	SIO-215-J1900	SIO-W215-J1900	SIO-W221-J1900 SIO-W221-8365UE <div>New</div>
CPU Onboard	Intel® Celeron® Processor J1900, Quad Core, 2MB Cache, 2.0 GHz			
	Intel® Core™ i5-8365UE Processor 6M Cache, up to 4.10 GHz			
Memory	4GB DDR3L SODIMM			
LAN	1x LAN by M12 X-Code 8-pin			
USB & Serial	2x USB 2.0 by M12 A-code 8-pin, 1x RS-232/422/485 by M12 A-Code 8-pin, 1x LAN by M12 X-Code 8-pin			
Storage	1x 64GB mSATA SSD			
Internal Expansion Slot	1x Full-size Mini PCIe			
Power	AC iN 110V~240V 60Hz, M12 A-code 4-pin			
Operating Temperature	-20 °C to 60 °C			
LCD Size	12.1" (4:3) XGA	15" (4:3) XGA	15.6" (16:9) Full HD	21.5" (16:9) Full HD
LCD Brightness	600 nits	300 nits	450 nits	300 nits
	1000 nits (Optional)			
Touch Type	Resistive 5-wire Touch / Projected Capacitive Touch / 7H Surface Hardness			

INDUSTRIAL BOARDS

Premio industrial boards offers a wide range form factor from Mini-ITX, Micro ATX, 3.5" SBC, COM Express-Mini Size Module, COM Express-Compact Size Module, COM Express-Basic Size Module, and COM Express-Carrier Boards.

MOTHERBOARDS

PICO ITX SERIES



	Intel® Celeron® Processor J1900 (2.0GHz/4C/10W)
Model	CT-PBT01
Memory	1x 204-Pin DDR3L 1066/1333MHz SODIMM
BIOS	AMI 64Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
Display Interface	1x HDMI, 1x LVDS
Rear IO	1x LVDS & 1x LVDS backlight, 1x RS-232/422/485, 1x RS-232, 2x USB 2.0
Internal I/O	1x LVDS,1x LVDS backlight, 1x RS-232/422/485, 1x RS-232,2x USB 2.0, 1x SATA 3.0Gb/s, 1x Front panel audio, 1x 8-bit GPIO (4-in/4-out), 1x Front panel, 1xSMBus
Power	12V DC Input 1x 2-pin power connector
Operating Temperature	-10°C ~ 70°C
Dimension	100mm x 72mm

MOTHERBOARDS

3.5" SBC SERIES



	Support 8 th Gen. Intel® WL-UE Processor (15 TDP) Intel® Core™ i7-8665UE, i5-8365UE, i3-8145UE or Intel® Celeron® Processor 4305UE	Intel® Atom™ Processor E3845, Celeron® Processor J1900
Model	CT-DWL01	CT-DBT02
Memory	1x 260-Pin DDR4 2400MHz SODIMM slot. Max. up to 32GB	1 x 204-pin DDR3L SODIMM Msockets Non-ECC/unbuffered Data transfer rates up to 1333MT/s Memory size up to 4GB
BIOS	AMI uEFI 256MB SPI flash	AMI uEFI 8MB SPI Flash
Watchdog	Software Programmable Supports 1~255 sec. System Reset	H/W Reset, 0 – 255 steps Step = 1 sec. or 1 min
TPM	TPM 2.0 Through Infineon® SLB9665TT2.0 or Equivalent	TPM 1.2 supported (Optional)
Display Interface	1x DisplayPort, 1x LVDS & 1x HDMI & 1x EDP internal connector (optional)	1 x HDMI, 1 x VGA, 1 x LVDS
Rear I/O	4x USB 3.2 Gen 2, 2x RJ45 GbE LAN, 1x DP, 1x HDMI	2x RJ45 GbE LAN, 1x HDMI, 1x VGA, 1x RS232/422/485 COM, 1x USB2.0, 1x USB3.0
Internal I/O	1x LVDS, 1x eDP1.4 (Optional) 4x RS-232/422/485 2x USB 2.0 2x SATA Gen3, 1x Front panel audio, 2x 4-bit DIO	1 x 2-ch 24bit LVDS, 1 x SATA 2.0, 3 x RS-232/422/485, 4 x USB 2.0, 1 x Line-In, Line Out & Mic-In 1 x 8-bit GPIO, 1 x PS/2 keyboard mouse, 1 x microSD card socket, 1 x SIM card socket, 1 x FAN connector
Power	AT/ ATX 12V DC Input, 4-pin CPU P4 connector	DC +12V input,
Operating Temperature	-40°C ~ 70°C	-20°C ~ 70°C
Dimension	146mm x 102mm	

MOTHERBOARDS

MINI-ITX SERIES



	LGA 1151 socket supporting 6 th Gen Intel® Core™ i3/i5/i7 Desktop Processor, Intel® Core™ i7-6700TE / i5-6500TE / i3-6100TE
Model	CT-XSL01
Memory	2x 260-Pin DDR4 1866/2133MHz SODIMM
BIOS	AMI uEFI 128MB SPI flash
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	TPM 2.0 supported (optional)
Display Interface	1x DVI-D, 1x 2-ch 24-bit LVDS, 1x DisplayPort
Rear I/O	1x DVI-I, 1x DP, 1x HDMI, 1x RS-232/422/485, 4x USB 3.0, 2x USB 2.0, 2x RJ45, 1x Line-out, 1x Mic-in, 1xPS/2 KB/MS
Internal I/O	1x 2-ch 24-bit LVDS, 4x RS-232,2x USB 3.0, 2x USB 2.0, 4 x SATA 6.0Gb/s, 1x Front panel audio, 1x 8-bit GPIO (4-in/4-out), 1x LPC 1x Front panel, 1x CPU fan 1x System fan
Power	ATX power, 2x12-pin and 2x2-pin power connector
Operating Temperature	0°C ~ 60°C
Dimension	170 mm x 170mm

MOTHERBOARDS

MICRO ATX SERIES



	LGA 1151 socket supporting 6 th Gen Intel® Core™ i3/i5/i7 Desktop Processor, Intel® Core™ i7-6700TE / i5-6500TE / i3-6100TE	Support 8 th /9 th Gen Intel® CFL-R S Processor (LGA 1151, 95W/65W/35W TDP), Intel® Core™ i7-9700E / i5-9500E / i3-9100E or Intel® Pentium® G5400T, G5400
Model	CT-MSL01	CT-MCL01
Memory	4x 288-Pin DDR4 1866/2133MHz DIMM	4x 288-Pin DDR4 2133/2400/2666MHz DIMM
BIOS	AMI uEFI 128MB SPI flash	AMI uEFI 256MB SPI flash
Watchdog	Software Programmable Supports 1~255 sec. System Reset	Software Programmable Supports 1~255 sec. System Reset
TPM	TPM 2.0 supported (optional)	TPM 2.0 supported (optional)
Display Interface	1x VGA, 1x DVI-D, 1x DisplayPort	1x VGA, 1x DVI-D, 2x DisplayPort (DP 1.2)
Rear I/O	1x VGA, 1x DVI-D, 1x DP, 1x HDMI, 2x RS-232/422/485, 4x USB 3.0, 2x RJ45 GbE LAN, 1x Line-in, 1x Line-out, 1x Mic-in	1x VGA, 1x DVI-D, 2x DP, 2x RS-232/422/485, 4x USB 3.2 Gen 2, 2x RJ45, 1x Line-in, 1x Line-out, 1x Mic-in
Internal I/O	4x RS-232,2x USB 3.0, 6x USB 2.0,4 x SATA 6.0Gb/s, 1x Front panel audio, 1x 8-bit GPIO (4-in/4-out), 1x PS/2 KB/MS 1x LPC, 1x Front panel 1x CPU fan, 2x System fan	4x RS-232,1x USB 3.2 Gen 1, 7x USB 2.0,6 x SATA 6.0Gb/s, 1x Front panel audio,1x 8-bit DIO (4-in/4-out),1x SPI header, 1x LPC,1x Front panel, 1x CPU fan,2x System fan
Power	ATX power, 2x12-pin and 2x2-pin power connector	
Operating Temperature	0°C ~ 60°C	0°C ~ 60°C
Dimension	244mm x 244mm	244mm x 244mm

CERTIFICATION READY INDUSTRIAL COMPUTERS

KCO 2000 SERIES

Certification-ready industrial computers are embedded computing solutions that serve as key building blocks for enterprise and IoT applications that require processing. The KCO Series of industrial computers is a commercial off-the-shelf (COTS) computing solution that provides reliability, regulatory safety, and embedded longevity with Premio’s extended lifecycle support. These certification-ready industrial computers are deployable in IoT applications in markets for kiosks, ATMs, security and surveillance, metrology and automation inspection, and mobile medical carts.

- 2U Slim Form Factor (SFF) Chassis Tool-less Mounting Options
 - Micro-ATX Motherboard Q370 Chipset
 - Support Intel 8th/9th Gen Core Processors
 - DDR4 Memory up to 128GB
 - 1x PCIe x16 slot (low profile, up to 9" card length)
 - x13 USB Ports for IoT devices
 - 1x Hot-swappable 2.5" SATA drive tray
- 1x M.2 (M Key); 1x M.2 (E Key)
 - Tool-less Washable Dust Filter
 - CE, FCC, UL Certified



	Certification-Ready Industrial Computer with LGA-1151 socket for Intel® CFL-R S Processor
Model	KCO-2000
CPU Support	Support 8th/9th Gen Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP)
Memory	4x 288-Pin DDR4 2133/2400/2666MHz DIMM. Max. up to 128GB
Graphic Output	1x VGA,1xDVI, 2x DP
LAN	GbE1: Intel I219LM (Support Wake-on-LAN and PXE) GbE2: Intel I210-AT (Support Wake-on-LAN and PXE)
USB & Serial	2x RS-232/422/485 + 2x RS-232 2x RS-232 (internal header) 6x USB 3.0 7x USB 2.0
Storage	1x Hot-Swappable 2.5" SATA Drive Bay (support H=7mm) 1x M.2 (M Key, NVMe PCIe x4, 2280) 1x M.2 (E Key, PCIe x2, USB 2.0, 2230)
Internal Expansion Slot	1x PCIe x16 slot (low profile, up to 9" card length)
Power	AT, ATX Internal 250W Flex Power Supply
Audio	Line-out / Mic-in Phone Jack
Operating Temperature	0°C to 35°C
Dimensions (WxDxH)	12.73"(W) x 10.75:(D) x 3.45"(H)
Weight	11 lbs (barebone w/ chassis, mb, and PSU only)
Certifications	CE, FCC, UL Certified

KCO 3000 SERIES

- 3U Compact Chassis with Rack Mount Options
- Micro-ATX Motherboard Q370 Chipset
- Support Intel 8th/9th Gen Core Processors
- DDR4 Memory up to 128GB
- Expansion Slots: 1x PCIe x16 full height, up to 10" card length) ,2x PCIe x4
- x13 USB Ports for IoT devices
- 1x 3.5" SATA HDD drive or 2x 2.5" SSD/HDD
- 1x M.2 (M Key); 1x M.2 (E Key)
- Tool-less Washable Dust Filter
- CE, FCC, UL Certified



	Certification-Ready Industrial Computer with LGA-1151 socket for Intel® CFL-R S Processor
Model	KCO-3000
CPU Support	Support 8th/9th Gen Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP)
Memory	4x 288-Pin DDR4 2133/2400/2666MHz DIMM. Max. up to 128GB
Graphic Output	1x VGA,1xDVI, 2x DP
LAN	GbE1: Intel I219LM (Support Wake-on-LAN and PXE) GbE2: Intel I210-AT (Support Wake-on-LAN and PXE)
USB & Serial	2x RS-232/422/485 + 2x RS-232 2x RS-232 (internal header) 6x USB 3.0 7x USB 2.0
Storage	1x 3.5" SATA HDD drive or 2x 2.5" SSD/HDD up to 15mm 1x M.2 (M Key, NVMe PCIe x4, 2280) 1x M.2 (E Key, PCIe x2, USB 2.0, 2230)
Internal Expansion Slot	1x PCIe x16 full height, up to 10" card length) 1x PCIe x4, 1x PCIe x4
Power	AT, ATX Internal 300W Flex Power Supply
Audio	Line-out / Mic-in Phone Jack
Operating Temperature	0°C to 45°C
Dimensions (WxDxH)	13.15"(W) x 11.78"(D) x 5.23"(H)
Weight	12.5 lbs (barebone w/ chassis, mb, and PSU only)
Certifications	CE, FCC, UL Certified



Premio Inc.

918 Radecki Ct., City of Industry, CA 91748

Toll Free: 800.977.3646

sales@premioinc.com

www.premioinc.com



© Premio Inc. All rights reserved.

The Premio logo is a registered trademark of Premio Inc. All other logos appearing in this catalog are the intellectual property of the respective company, product, or organization associated with the logo. All product specifications and information are subject without notice.