

Embedded Computing System Provider Intelligent Solution Empowered by Innovation

Who We Are

Market Position

Cincoze is a system provider in the Industrial Computing field. We design, manufacture, and market highly engineered and innovative products to meet the demanding industrial application markets.



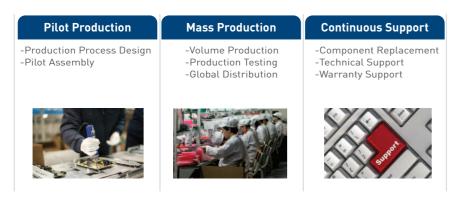
Capabilities

Cincoze specializes in the processes that are crucial to implementing a complete solution, every step from the technical feasibility study, design, verification, and manufacturing to extended life cycle services.

With responsive design, accurate and ERP-managed manufacturing abilities, in addition to expert component selection, Cincoze offers high quality, long lifecycle management to meet the most demanding requirements.

New Product Development Process





Product Lines

Cincoze is a professional manufacturer providing industrial computing system solutions. We offer both fanless computing and display computing product lines.

Cincoze fanless embedded computer product line that includes three series; Superior, Efficient, and Compact. The fanless embedded computer is a rugged, reliable and comprehensive solution for critical industrial environments.

The convertible display system product line that includes three series; Convertible Panel PC, Convertible Touch Monitor, and Display System Module. The display computing system is a flexible, all-in-one, industrial, and multi-functional solution that fulfills a wide range of applications.



Services

Configure-To-Order Services (CTOs)

We offer "Turnkey" solutions according to customers' needs. We can configure numerous options on our systems including:

- 1. Hardware Integration: We carefully choose and certify qualified products such as processors, memory, storage devices, expansion cards, and other components as our standard part lists. You decide the configuration and we integrate those components into
- 2. Software Installation: We can install an operating system (OS) or a customized image based on the request.
- Testing & Verification: We will conduct POST, function tests and burn-in tests on the integrated system.

Benefits to Customers

- Flexible System Solutions
- Cost Effectiveness
- Proven Quality



Cincoze offers OEM/ODM and industrial computing customization services to meet the requirements of clients in small to medium quantities with a fast time-to-market turnaround. Our services cover the full project life cycle. We maintain stringent quality standards in our manufacturing processes, and ensure products to go through rigorous quality checks at every stage of production. Our expertise and experience lies in design implementation, quick prototyping, on-time delivery and RMA / repairing services for our clients.



What We Do

Innovative R&D

A Balance between the Latest PC Technology, Innovation and Application Know-how

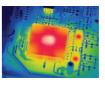
We have a dynamic and experienced R&D team that keeps pace with changing industry trends. We ensure that our staff is up-to-date with the most innovative technology and always offers state-of-the-art solutions to meet the customer's specific application demands.

At Cincoze, we constantly refine and evolve all of our processes to enhance value, verify reliability, and foster innovation; we devote our major manpower to R&D. Our in-house engineering team is dedicated to developing creative solutions that improve the capabilities of our products.



Electronic Design

Cincoze possesses exceptional design experience in electronic and circuit optimization. We are confident in passing any stringent test criterion from customers' requirements.



Thermal Design

In order to help our customers overcome thermal issues, Cincoze is equipped with thermal simulation tools along with physical test henches to assure thermal performance of any mechanical design.



Mechanical Design

Cincoze's dedicated and experienced mechanical engineers understand your applications and requirements and are able to ensure safety and reliability.



System Integration

Our team of professionals is dedicated to providing only the best for our clients. We achieve this by keeping up-to-date with the latest technologies.

Effective Manufacturing

We organize complete manufacturing process including PCB, metal sheet and aluminum chassis production; we hold our own assembly factory in Taiwan.

We emphasize quality, flexibility and productivity which is reflected in:

- Manufacturing Plan: We have a rigorous production plan to meet targeted quantities and lead-times.
- Efficient Production: We carefully manage all production procedures and operations to optimize efficiency.
- Total Quality Assurance: All products we produce are 100% tested and verified.
- Manufacturing Process Simplification and Process Refinements: Ongoing analysis, review, and study of production methods must be performed with the sole purpose of making the process simpler, easier, and as a result, optimized.













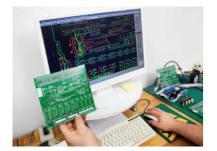
Reliable Quality Assurance

Integrated Quality Assurance: Assuring Best Quality Right from the Start

Cincoze is deeply invested in developing rigorous quality assurance and compliance testing facilities. With the mentioned quality assurance and compliance tests we assure that our customers receive durable products that withstand harsh operation environments. Under our strict Quality Assurance System, product design and reliability are controlled.



Meticulous Reliability Testing Ensures Design and Production Quality







Environmental Test



Function Test





Drop Test





Global Sales & Distribution

In order to extend our global sales and support, we form partnerships with industry-leading distributors to bring our clients the additional value which includes up-todate technology, access to specialized resources and expertized services.

Complete Service

When you decide with a Cincoze solution, you are choosing a reliable partner. We provide the value-added service before and after the purchase. We have a dedicated technical and customer service support team who quickly responds to your requests, providing real-time solutions.



Technical Support

Cincoze provides timely and knowledgeable support and services to help your system operate efficiently.



Troubleshooting

Our service team is equipped with the latest and greatest toolsets. All team members continually undergo training on a wide range of products to be able to respond swiftly and effectively in any situation.



Cincoze products are warranted to be free from manufacturing defects in materials and workmanship starting from the shipping date of Cincoze.

What We Believe

Green Products

Designing Products with The Eco-friendly Concept

Cincoze focuses on designing products that are easy to be reused, recycled, and disassembled, which improve product power efficiency, and adhere to hazardous substance guidelines. We continuously take steps toward carrying out our Green policy. The Green Product concept has been built into our new product development system to ensure protection of the environment. In order to provide ecofriendly products, we consider the following while designing our products:



- Smarter Material Choices: We use safe materials in our products and many of our products are designed with environmentally preferable materials like recycled plastics.
- **RoHS Compliant:** From our internal practices to our production processes, we continue to promote environmental protection policies and provide RoHS compliant products for our customers.

Brand Values

Driving Growth & Innovation through Our Brand Core-Values

We strongly believe in leading products and solutions with the aim of controlling, monitoring and optimizing industrial processes and functions. We at Cincoze work non-stop to create solution to our customers' Industrial Applied Computer demands. This is evident through our core-values:

- Quality-driven
- An Extreme Commitment to Reliability
- Attention to Detail Both in Products and Services
- People We Develop Our Know-how through Our People

Internal (Employees)

At Cincoze we are to improve our internal processes.

We must always be reliable in the way we work together as a team

Within Cincoze we pay

We know that to develop the specialist knowhow needed to be experts: we need to have the best people and invest in them.

Quality-driven

We always focus on improving the quality of our product as well as the quality of our

Reliability is the key for IPCs and we work continuously to make sure our products are 100%

Attention to Detail - Both in Products and Services

It is through attention to details that others will judge us - it is a representation of our company and our products'

People - We develop our know-ho through our people

We show outsiders the quality of our company and products by the quality of our people that is what they see.

External (Customers & Partners)

Innovative Prouct Lines

Cincoze is proud to introduce the revolutionary convertible display system and advanced fanless computing system product lines to the market. The convertible display system (CDS) is a brand new type of industrial panel PC and touch monitor. CDS offers innovative technology that provides new solutions for many industrial applications. This advanced fanless computing system adds new functionality with even greater computing performance. It steps-up fanless computing to a new level.

Embedded Computing System Provider

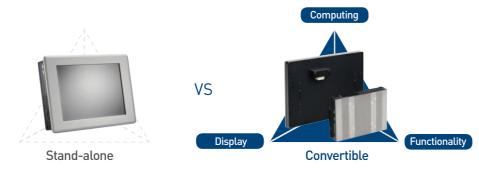


Revolutionary Convertible Display System



CDS is a standardized "All-in-one" system that is composed in two major parts, display and system. They are interdependent and can be operated together. The advanced electronic design integrates display, touch and computer signal in an embedded circuit board, which provides the most reliable display computing operation. Moreover, the unique mechanical design unifies connection,

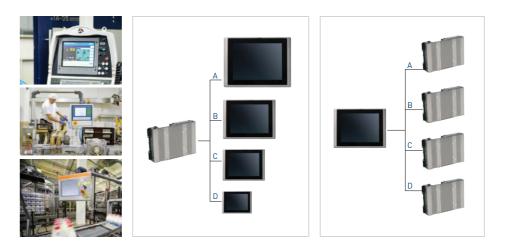
form factor and fixation to ensure seamless hardware integration. This technology together offers possibilities of changing display size of a system, upgrading computing performance and I/O connectivity depending entirely on the requirements of the application.



Features	Benefits
Configure by demand	Build an application-ready system instantly
Easy maintenance	Lower total ownership cost and keep non-stop operation
Upgrade capability	Protect investment and offer scalability

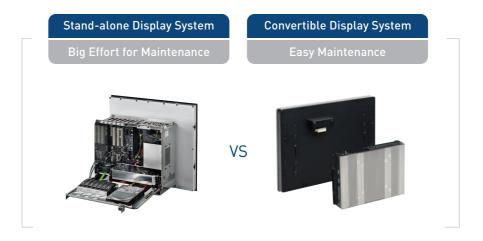
Configure by Demand

CDS supports the "configure by demand" function that allows users to configure their own panel PC or touch monitor by selecting the desired display (LCD size, resolution, formats) and system (computing performance, I/O connectivity).



Easy Maintenance

CDS is very easy to maintain and does not require a specialist. The plug-in design means only three steps are needed to exchange or maintain a system. This results low cost on-site maintenance and allows operations to continue without interruption.



Upgrade Capability

Thanks to the standardized electronic specification and unified mechanical design of CDS that can be upgraded easily and thus your investment is protected.



Advanced Fanless Embedded Computer

The advanced fanless embedded computer integrates both leading industrial computing technologies and application-ready functionality to simplify the complexity of industrial applications. The leading industrial computing technologies comprise the latest Intel® embedded solution, the world's leading "Fanless System Supports Desktop Processor", unique "Compact Expandable Computer" and much more for you to explore.

The application-specific functionalities include power ignition for vehicle, Power over Ethernet, RAID for backup and recovery, and multi Giga LAN for surveillance. It is very exciting to know how those functionalities can make the applications much easier and more cost-effective. There is no longer a need to make compromises for performance or functionality while choosing a suitable fanless computer. Here, you have it all!



Latest Intel® Embedded Solution

The advanced fanless computing system powered by the latest Intel® Atom™ SOC processors and the 4th generation core™ i processors provide comprehensive solutions, from power efficient to top performance, to fulfill various operation requirements. The latest features highlight significant graphics improvement, better computing performance, and smart I/O with less power consump-



World-leading Fanless Embedded Computer Supports Desktop Processor

The advantages of the Intel® embedded desktop solution are very obvious; it has higher performance and lower cost in comparison to its mobile solution. However this is hardly achievable in a "fanless" system because of the heat generated from the high power consumption. By integrating the latest Intel® core™ i solution with the unique Cincoze thermal design, we are proud to introduce the world's leading "Fanless Computer Supports Desktop Processor" to the market. While enjoying the benefits of rugged fanless design and higher desktop performance, the LGA1150 supported socket allows the flexible choice of a compatible processor for the application.



Compact Expandable Computer

The usual problem with a small size embedded computer is its limited expandability, which narrows down the range of applications that can be implemented. This is not the case with our "Compact Expandable Computer". The palm-sized body, equipped with two Mini-PCIe slots and unique universal I/O bracket allow expansion for wireless communication, I/O add-ons and automation fieldbus cards. "Compact Expandable Computer" has redefined the term "embedded". It is tiny yet very flexible which creates many new possibilities for the embedded market.

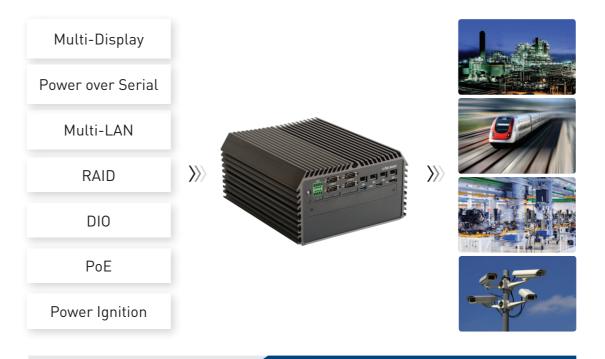




- 2 Mini-PCIe Slot with Unique Universal I/O Bracket
- Wireless Expansion
- I/O Expansion
- Fieldbus Expansion

Application-ready Functionalities

The usage of industrial computers over the last decade has extended into an enormous range of applications. Many of these require more than standard computing functionality; transportation, digital signage, factory automation, POS/KIOSK, surveillance, in-vehicle, medical and many others. By using built-in micro-processors, extended I/O modules, dedicated ASIC and add-on circuit boards, we are able to offer advanced functionalities that makes the required applications easy to apply and ready to run. The advanced fanless embedded computer is more than just a standard fanless computer; it offers not only superior computing performance but also integrated application-ready functionalities such as Digital I/O, Power Ignition, Power over Ethernet, Power over Serial, RAID and Multi-LAN. The target of the advanced fanless computing system is to be an intelligent and cost saving solution for the increased demands of today's market.





Fanless Embedded **Computers**

Cincoze is proud to offer our fanless embedded computers which includes Superior, Efficient and Compact Series. All three series are designed to be rugged, fanless and cable free and are subjected to rigorous testing for verification of their suitability to operate under harsh environmental conditions. They are extremely reliable and suitable for a wide range of industrial applications.

The Core Design Concepts for Cincoze Fanless Embedded Computer



Rugged Design

Cincoze Fanless Embedded Computers are designed for harsh environments. The rugged mechanical design can withstand extremes of shock, vibration, humidity, and temperature. The rugged design concept also applies in component selection, circuit design, PCB layout, material thermal solutions, critical test criteria, and manufacturing process.

Fanless Design

The absence of moving parts extends system life, reduces needs for maintenance in a wide range of environments and heavy-duty industrial applications. In addition, it also minimizes possible downtimes caused by failures of moving parts. Fanless design reduces overall system power consumption.



Cable Free Design

All components and connectors are directly mounted on the PCB using SMT and DIP without any connecting cables. This eliminates possible cable failure and also prevents signal degradation and latency. Our cable free design results an extremely strong and durable mechanical structure which is suitable for the harshest environments.



One-piece Housing Design

This mechanical design provides high reliability, durability, easy access for installation and maintenance. The robust one-piece housing is highly resistant to damage caused by shock and vibration. The unit is well sealed and resistant to moisture and ingress of dust. The robust housing is also designed to give the most efficient heat dissipation under various environmental conditions.



Wide Temperature Range

The design of Cincoze Fanless Embedded Computer allows operations in extreme high and low temperature environments. The system provides the highest level of failure tolerance and is designed to deliver optimum performance over a wide temperature range in order to accommodate diverse industrial applications.



Integrated Anti-vibration Kit

The integrated anti-vibration kit effectively absorbs shock and vibration. It is a simple and reliable antivibration solution that gives the system extra stability and increases life-span of the device.



Reliable Design

Cincoze Fanless Embedded Computers are designed for flexibility across a wide range of applications and focused on reliability, performance and longevity. They are built with industrial grade components, special heat dissipation, reliable DC power input, power protection and ESD protection to minimize the possibility of failures in harsh environments.

Industrial Components

Quality of components directly affects the performance of an industrial computing product. The industrial components used in this product line provide outstanding performance and generate less heat inside of the system and it also increases the system stability.

Special Heat Dissipation

The intelligent design of thermal module and chassis structure allows the most effective heat dissipation. This increases the upper limit of temperature operation and also raises the industrial-grade quality and standard.



Reliable DC Power Input

Voltage supplies in different places can vary and may be unstable at times. Incorrect voltage and current can cause damage and failure of electrical components. In order to provide safe and reliable operations under industrial conditions a wide range of acceptable inputs are essential. The built-in industrial standard voltage and current regulator allow a wide range of DC inputs.

Power Protection

Cincoze Fanless Embedded Computers have several means for power protection, a positive high voltage ideal diode controller with reverse input protection, transient voltage suppressor diode (also known as TVS Diode), and several types of fuses on the main board. The power protection design not only reduces risks from installation mistakes, and also prevents accidental system damages.

- Reverse Power Input Protection: Protects the system against incorrect power input
- Over Voltage Protection: Protects the system from over voltage up to 75 VDC \pm 15 %.
- Over Current Protection: Protects the system from over current up to 15~20 Amps.

ESD Protection

Cincoze Fanless Embedded Computers are built-in with ultra-low capacitance ESD protection array for high speed I/O ports, such as USB, VGA, DVI display outputs, etc. ESD array protects the system from external ESD threats and also guards the power supply and data transfer connections against discharge spikes.



Comprehensive Product Portfolio

Cincoze Fanless Embedded Computers are available in several designs with different functionalities. They are all highly reliable and functional and can be implemented to various requirements. Cincoze offers several options as below:

Superior Series

The Superior series features high processing power and multi-expansion possibilities. The systems provide high performance, multi-tasking and ultimate functionality, with I/O and expansion capabilities for the most critical applications.

Efficient Series

The Efficient series features efficient processing power and high functionality. The systems are designed with rich I/O, high flexibility and easy expansion capabilities which are ideal for diverse industrial applications.

Compact Series

The Compact series systems are very small and efficient and they are designed with low power consumption. The systems provide performance that is ideal for embedded applications where space is limited.

Fanless Embedded Computers

Expandable Fanless Embedded Computers

Superior Series

High Performance Multi-tasking **Abundant Functionality** High Expansion Capability



Efficient Series

Power Saving Abundant Functionality Rich I/O High Expansion Capability



Integrated Fanless Embedded Computer

Compact Series

Power Saving Extremely Compact



The Key Features of Cincoze Fanless Embedded Computers

Superior Performance

World-leading Fanless Embedded Computer Supports Desktop Processor – Highly Flexible and Cost Effective



Supporting the 4th generation Intel® Core™ i3/i5/i7 processor up to 3.7GHz, and L2 cache up to 8M, Cincoze Superior series is a powerful desktop solution and also the world's first "Fanless Embedded Computer Supports Desktop Processor". In comparison with the mobile platform, Superior series provides a better performance at a lower price. In addition, the sockets support LGA 1150, which enable users to select compatible processors on demand.

Substantially More CPU Power and Extra Graphic Performance

Powered by the 4th generation Intel® Core™ i3/i5/i7 processors and the Intel® Q87 chipset, Superior series fanless embedded computers enable customers to consolidate industrial workloads and deliver much more efficient factory solutions. With improved CPU performance, graphic capability, security and power efficiency, it is ideal for powering intelligent systems.



Triple-independent Display Supported

Based on Intel® HD Graphics, Intel® augments the graphics performance with DX11.1 and OCL1.2, while supporting HDMI 1.4, DP, eDP, DVI, and VGA digital displays. The multiple video output ports enable Superior series to create an ultimate visual experience and support separate video streams and extension modes on the tripleindependent display.



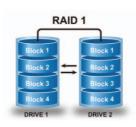
Extended Screen



RAID 0/1 Supported

Superior series support SATA RAID technology with RAID (striping) and RAID 1 (disk mirroring) to offer safe and cost-effective storage solutions. RAID technology is ideal for a variety of industrial-grade applications that require high data transfer rates, mass data storage and high reliability.





2. Ultimate Expandability

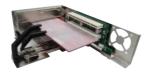
Cincoze Fanless Embedded Computers were born to be expandable. The systems support various expansion interfaces, such as PCI, PCI express, Mini-PCIe, and mSATA, offering the greatest flexibility for many different applications.



Interface	Standard Height (mm)	Support Length (mm)	Compact Series	Efficient Series	Superior Series
Mini-PCle	30.00	26.80 Half size	V	V	V
MIIII-F CIE	30.00	50.95 Full size	V	V	V
PCI	111.15	174.63 Max		V	V
FCI	111.15	235.00 Max			V
PCle x1	111.15	174.63 Max		V	V
1 Ole XI	111.15	235.00 Max			V
PCle x16	111.15	235.00 Max			V

PCI/PCIe Expansion

Superior / Efficient series support removable extension modules with PCI/ PCIe combination slots, and unique card retainer design protecting add-on cards from vibration shock.



Mini-PCle Expansion

Cincoze Fanless Embedded Computers support multiple Mini-PCle slots, which provides expansion capacity for I/O and wireless applications. In addition, the universal I/O bracket design allows easy Mini-PCIe card expansion.



3. Extended Functionality

PoE (Power over Ethernet)

Superior / Efficient series support up to 4 PoE ports providing up to 27 watts of power per port. The PoE function enables data to be transmitted simultaneously through an Ethernet cable allowing the system to be used with IEEE802.3af compliant power devices (PD). This makes the system ideally suitable for outdoor applications such as IP cameras, Access Points, RFID Readers and IP Phones, making it possible to reduce the complexity, cost of installation and maintenance while increasing the security and reliability of the network.



Multi-LAN

Superior / Efficient series support up to 6 Gigabit LAN ports with Intel® 82583 Ethernet controllers. This feature provides abundant network connectivity and enables the system to be tailored to specific applications, such as monitoring, analysis, or surveillance.

PoS

(Power over Serial)

Superior / Efficient series support power over serial ports, enabling devices to be powered directly without the need of external DC power sources.

AT / ATX Dual Power Mode

Cincoze Fanless Embedded Computers support AT/ATX dual power mode. AT/ATX DIP switch is located in an accessible area allowing users to select required power modes



Digital I/O

Cincoze Fanless Embedded Computers support up to 4-ch isolated digital input and output, allowing implementations to industrial control applications.



Digital I/O



POS / KIOSK



Control Application

Intelligent Ignition Control

Built-in microprocessor and power ignition signal pin allow detection of ignition signal status and control on/off delay time setting. This intelligent ignition control function makes Superior / Efficient series ideal for in-vehicle applications.



Power Ignition



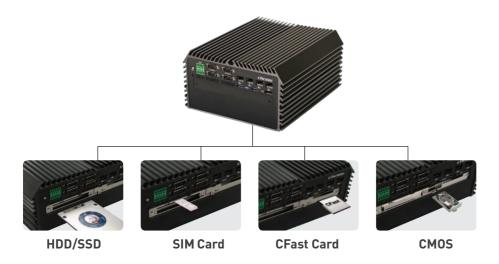


Power Ignition Function for invehicle Application

4. Easy Maintenance

Accessible Design

External devices, such as HDD, SSD, CFast, SIM Card and CMOS battery can be accessed from the protected and removable front plate for Superior Performance series. The retrievable design offers great convenience for maintenance and on-site usage; it saves a lot of maintenance time and cost.





Exchangeable Fuses

Superior series has built-in exchangeable fuse that protects the system from over current up to 15A. The convenient design enables users to exchange fuses when necessary.

Exchangeable Fuse Socket

Self-Diagnostics

Superior series has built-in internal sensors for measuring system temperature. The temperature LED on the front panel shows the system status. This self-diagnostic design enables users to take precautionary action to prevent incidents.



- Green=Good
- Yellow=Moderate
- Red=Hot
- Blinking Red=Over Heat

External Fan Option

An optional external fan is available for installation on top of the system and can be powered directly from the system which allows Superior series to be deployed in extremely harsh conditions.

Superior Series Fanless Embedded Computers

- Support 4th Gen. Intel® Core™ i3/i5/i7 Desktop Processor
- Wide Operating Temperature (Supports up to -10°C to 60°C)
- Triple Independent Display
- Multi LAN / PoE Version Available
- Power over Serial / DIO and Power Ignition Functionalities
- Various Expansion Interface: PCI / PCIe / Mini-PCIe Expansion Available





Desktop

Processor

The World's Wide Operating
1st Fanless Temperature
Computer
Supports



ng Triple e Independent

Display



Abundant Functionalities



Various Expansion



Easy Maintenance



Efficient Series Fanless Embedded Computers

- Onboard Intel® Atom™ Processor (Bay Trail Platform)
- Wide Operating Temperature (Supports up to -20°C to 70°C)
- Multi LAN / PoE Version Available
- Power over Serial / DIO and Power Ignition Functionality
- Various Expansion Interface: PCI / PCIe / Mini-PCIe Expansion Available





Wide Operating Temperature



Abundant Various Expan-Functionalities sion Interfaces



Easy Maintenance



Compact Series Fanless Embedded Computers

- Powered by Intel® Atom™ Processor
- Wide Operating Temperature (Supports up to -20°C to 70°C)
- Compact Size Design
- Rich I/O
- 2x Mini-PCle Sockets with Universal I/O Bracket Supported









Extremely Ric Compact Size







Fanless Embedded Computers

	Photo					
	Model Name	DS-1000	DS-1000L	DS-1000P		1001
	Model No.	DS-1000	DS-1000L	DS-1000P	DS-1001-E	DS-1001-P
	CPU	Intel® 4th Generation:	G1820TE / i3-4330TE / i5-4570TI	E / i7-4770TE Supported		Generation: 70TE / i7-4770TE Supported
Processor	Frequency	2.	2 GHz / 2.4 GHz / 2.7 GHz / 2.3 G	Hz	2.2 GHz / 2.4 GHz	/ 2.7 GHz / 2.3 GHz
System	Core Number	2/2/2/4	2/2/2/4	2/2/2/4	2/2/2/4	2/2/2/4
	BIOS	AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI
	Chipset	Intel® Q87	Intel® Q87 DR3 / DDR3L 1333MHz / 1600MI	Intel® Q87	Intel® Q87	Intel® Q87 33MHz / 1600MHz
M	Technology	,	(un-buffered and non-ECC)	112		and non-ECC)
Memory	Max. Capacity	16 GB	16 GB	16 GB	16 GB	16 GB
	Socket	2x 204-Pin SO-DIMM Yes	2x 204-Pin SO-DIMM Yes	2x 204-Pin SO-DIMM Yes	2x 204-Pin SO-DIMM Yes	2x 204-Pin SO-DIMM Yes
	VGA	(w/ Optional Split Cable)	(w/ Optional Split Cable)	(w/ Optional Split Cable)	(w/ Optional Split Cable)	(w/ Optional Split Cable)
Display	DDI (HDMI/DVI/DisplayPort)	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort
	Multiple Display	Triple	Triple	Triple	Triple	Triple
	PCI	-	-	-	-	1
Expansion	PCle	-	-	-	1 (PCIe x16)	-
	Mini PCle	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe
Ethernet	Controller	GbE1: Intel® 82583V, GbE2: Intel® i217LM, Support Wake-on-LAN and PXE	GbE1: Intel® 82583V, GbE2: Intel® i217LM, GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN and PXE	GbE1: Intel® 82583V, GbE2: Intel® i217LM, GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN and PXE	GbE1: Intel® 82583V, GbE2: Intel® i217LM, Support Wake-on-LAN and PXE	GbE1: Intel® 82583V, GbE2: Intel® i217LM, Support Wake-on-LAN and PXE
	PoE	-	-	4x 802.3at Compliant PoE Port The Maximum DC Power Delivery on Each PoE is 25W@DC 56V Input	-	-
	Speed	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
Audio	Codec	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S
	Connector	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out
	WatchDog Timer	Software Prog	grammable Supports 1~255 sec.	System Reset	Software Programmable Supp	oorts 1~255 sec. System Reset
	SSD / HDD	2x 2.5" SATA SSD/HDD Bay	2x 2.5" SATA SSD/HDD Bay	2x 2.5" SATA SSD/HDD Bay	2x 2.5" SATA SSD/HDD Bay	2x 2.5" SATA SSD/HDD Bay
Storage	mSATA	2x m:	SATA (1x Shared by Mini-PCle So	ocket)	2x mSATA (1x Shared	by Mini-PCle Socket)
	CompactFlash / CFast	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast
	SIM Socket	1	1	1	1	1
	USB 3.0	4	4	4	4	4
	USB 2.0	4	4	4	4	4
	DIO	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out
	COM Port	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485
	PS/2 Antenna Hole	1x KB/MS 2	1x KB/MS 2	1x KB/MS 2	1x KB/MS 2	1x KB/MS 2
I/O Ports	Power Switch	1	1	1	1	1
	AT/ATX Switch	1	1	1	1	1
	External Fan Connector	Yes	Yes	Yes	Yes	Yes
	Remote Power On/Off and Remote Power Reset	Yes	Yes	Yes	Yes	Yes
	Universal I/O Bracket	2	2	2	2	2
	Power Type	AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX
	Power Supply Voltage	9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC
Power	Connector	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block
	Power Adaptor	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/9.2A, 220W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/5A, 120W
	Operating Temperature	Ambient with air flo	w: -10°C to 60°C (with Industria	l Grade Peripherals)		low: -10°C to 60°C rade Peripherals)
Environment	Storage Temperature	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C
	Relative Humidity	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)
	Dimension (WxDxH, mm)	227 x 261 x 86mm	227 x 261 x 86mm	227 x 261 x 86 mm	227 x 261 x 106 mm	227 x 261 x 106 mm
Physical	Weight	4.70 kg	4.70 kg	4.70 kg	5.22 kg	5.22 kg
	Construction		ded Aluminum with Heavy Duty	1		with Heavy Duty Metal
Operation	Mounting	Wall	Wall	Wall	Wall	Wall
Operating System	Microsoft® Windows®		s® 8 • Windows® Embedded 8 ss® 7 • Windows® Embedded 9			s® Embedded 8 Standard s® Embedded Standard 7
Certification	Safety Certifications	• CE • F	CC Class A • EN 50155 • EN	50121-3-2	• CE • FCC Class A • E	N 50155 • EN 50121-3-2







DS-1	1001L	DS-1	001P		DS-1002	
DS-1001L-E	DS-1001L-P	DS-1001P-E	DS-1001P-P	DS-1002-PE	DS-1002-EE	DS-1002-PP
	Generation: 570TE / i7-4770TE Supported	Intel® 4th Generation: G1820TE / i3-4330TE / i5-4570TE / i7-4770TE Supported		Intel® 4th Generation: G1820TE / i3-4330TE / i5-4570TE / i7-4770TE Supported		
2.2 GHz / 2.4 GHz	/ 2.7 GHz / 2.3 GHz	2.2 GHz / 2.4 GHz	2.7 GHz / 2.3 GHz		GHz / 2.4 GHz / 2.7 GHz / 2.3	GHz
2/2	/2/4	2/2/2/4	2/2/2/4	2/2/2/4	2/2/2/4	2/2/2/4
AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI
Intel® Q87	Intel® Q87	Intel® Q87	Intel® Q87	Intel® Q87	Intel® Q87	Intel® Q87
(un-buffered	33MHz / 1600MHz and non-ECC) 16 GB	DDR3 / DDR3L 13 (un-buffered a			R3 / DDR3L 1333MHz / 1600N (un-buffered and non-ECC)	
16 GB 2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	16 GB 2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	16 GB 2x 204-Pin SO-DIMM	16 GB 2x 204-Pin SO-DIMM	16 GB 2x 204-Pin S0-DIMM
Yes	Yes	Yes	Yes	Yes	Yes	Yes
(w/ Optional Split Cable)	(w/ Optional Split Cable)	(w/ Optional Split Cable)	(w/ Optional Split Cable)	(w/ Optional Split Cable)	(w/ Optional Split Cable)	(w/ Optional Split Cable
1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort
Triple	Triple	Triple	Triple	Triple	Triple	Triple
-	1	-	1	1	-	2
1 (PCIe x16)	-	1 (PCle x16)	-	1 (PCIe x16)	2 (PCle x1, PCle x16)	-
2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe
GbE2: Inte GbE3: Inte GbE4: Inte GbE5: Inte GbE6: Inte	1@ 82583V, 1@ i217LM, 1@ 82583V, 1@ 82583V, 1@ 82583V, on-LAN and PXE	GbE1: Intel GbE2: Intel GbE3: Intel GbE4: Intel GbE5: Intel GbE5: Intel GbE4: Intel GbE5: Intel	® i217LM, ® 82583V, ® 82583V, ® 82583V, ® 82583V,	GbE1: Intel® 82583V, GbE2: Intel® i217LM, Support Wake-on-LAN and PXE	GbE1: Intel® 82583V, GbE2: Intel® i217LM, Support Wake-on-LAN and PXE	GbE1: Intel® 82583V, GbE2: Intel® i217LM, Support Wake-on-LAN and I
-	-		pliant PoE Port Delivery on Each PoE is 56V Input	-	-	-
10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S
1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-ou
	ogrammable sec. System Reset	Software Pro Supports 1~255 s		Su	Software Programmable pports 1~255 sec. System Re	cat
	2x 2.5" SATA SSD/HDD Bay				2x 2.5" SATA SSD/HDD Bay	
ZX MSAIA (IX Shared	l by Mini-PCle Socket)	2x mSATA (1x Shared	by Mini-Pule Socketi	Zx m5/	ATA (1x Shared by Mini-PCle S	ocket)
1x CFast	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast
1	1	1	1	1	1	1
4	4	4	4	4	4	4
4	4	4	4	4	4	4
4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out
6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485
1x KB/MS	1x KB/MS	1x KB/MS	1x KB/MS	1x KB/MS	1x KB/MS	1x KB/MS
2	2	2	2	2	2	2
1	1	1	1	1	1	1
1	1	1	1	1	1	1
Yes	Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	2	2	2	3	3	3
AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX
9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC
3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block
Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/9.2A, 220W	Optional AC/DC 24V/9.2A, 220W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/5/ 120W
	low: -10°C to 60°C rade Peripherals)	Ambient with air fl (with Industrial G			bient with air flow: -10°C to 6 ith Industrial Grade Periphera	
-20°C to 80°C	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C
10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condens
227 x 261 x 106 mm	227 x 261 x 106 mm	227 x 261 x 106mm	227 x 261 x 106 mm	227 x 261 x 126 mm	227 x 261 x 126 mm	227 x 261 x 126 mm
5.22 kg	5.22 kg	5.22 kg	5.22 kg	5.70 kg	5.70 kg	5.70 kg
Extruded Aluminum	with Heavy Duty Metal	Extruded Aluminum	with Heavy Duty Metal	Extrud	ed Aluminum with Heavy Dut	y Metal
Wall	Wall	Wall	Wall	Wall	Wall	Wall
	s® Embedded 8 Standard		s® Embedded 8 Standard		® 8 • Windows® Embedded	
Windows® 7 • Window	s® Embedded Standard 7	Windows® 7 • Window	s® Embedded Standard 7	Windows	® 7 • Windows® Embedded	Standard 7
• CE • FCC Class A • E	N 50155 • EN 50121-3-2	• CE • FCC Class A • E	N 50155 • EN 50121-3-2	• CE • FC	C Class A • EN 50155 • EN	I 50121-3-2

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Fanless Embedded Computers

Photo





Model Name			DS-1002L		DS-1	002P
	Model No.	DS-1002L-PE	DS-1002L-EE	DS-1002L-PP	DS-1002P-PE	DS-1002P-EE
	CPU	Intel® 4th Generation:	G1820TE / i3-4330TE / i5-4570TE	Intel® 4th (G1820TE / i3-4330TE / i5-45		
Processor	Frequency	2.2 GHz / 2.4 GHz / 2.7 GHz / 2.3 GHz		2.2 GHz / 2.4 GHz /	/ 2.7 GHz / 2.3 GHz	
System	Core Number	2/2/2/4	2/2/2/4	2/2/2/4	2/2/2/4	2/2/2/4
	BIOS	AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI	AMI 128Mbit SPI
	Chipset	Intel® Q87	Intel® Q87	Intel® Q87	Intel® Q87	Intel® Q87
	Technology	U	DR3 / DDR3L 1333MHz / 1600MI (un-buffered and non-ECC)	HZ	DDR3 / DDR3L 13 (un-buffered :	
Memory	Max. Capacity	16 GB	16 GB	16 GB	16 GB	16 GB
	Socket	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM
	VGA	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)
Display	DDI (HDMI/DVI/DisplayPort)	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort	1x DVI 2x DisplayPort
	Multiple Display	Triple	Triple	Triple	Triple	Triple
	PCI	1	-	2	1	-
Expansion	PCle	1 (PCIe x16)	2 (PCle x1, PCle x16)	-	1 (PCle x16)	2 (PCIe x1, PCIe x16)
	Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe
Ethernet	Controller		GbE1: Intel® 82583V, GbE2: Intel® i217LM, GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN and PXE		GbE1: Intel GbE2: Intel GbE3: Intel GbE4: Intel GbE5: Intel GbE5: Intel GbE6: Intel GbE6: Intel	(® i217LM, (® 82583V, (® 82583V, (® 82583V, (® 82583V,
	PoE	-	-	-	The Maximum DC Power	pliant PoE Port Delivery on Each PoE is 56V Input
	Speed	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
Audio	Codec	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S
	Connector	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out
	WatchDog Timer		rammable Supports 1~255 sec. I			oorts 1~255 sec. System Reset
	SSD / HDD	2x 2.5" SATA SSD/HDD Bay	2x 2.5" SATA SSD/HDD Bay	2x 2.5" SATA SSD/HDD Bay	2x 2.5" SATA SSD/HDD Bay	2x 2.5" SATA SSD/HDD Bay
Storage	mSATA		2x mSATA (1x Shared by Mini-PCle Socket)		2x mSATA (1x Shared	,
	CompactFlash / CFast SIM Socket	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast
	USB 3.0	4	4	4	4	4
	USB 2.0	4	4	4	4	4
	DIO	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out
	COM Port	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485
	PS/2	1x KB/MS	1x KB/MS	1x KB/MS	1x KB/MS	1x KB/MS
I/O Ports	Antenna Hole	2	2	2	2	2
	Power Switch AT/ATX Switch	1	1	1	1	1
	External Fan Connector	Yes	Yes	Yes	Yes	Yes
	Remote Power On/Off and	Yes	Yes	Yes	Yes	Yes
	Remote Power Reset Universal I/O Bracket	3	3	3	3	3
	Power Type	AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX
	Power Supply Voltage	9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC
Power	Connector	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block
	Power Adaptor	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/9.2A, 220W	Optional AC/DC 24V/9.2A, 220W
Environment	Operating Temperature		w: -10°C to 60°C (with Industria	,	Ambient with air f (with Industrial G	rade Peripherals)
-Environment	Storage Temperature	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C
	Relative Humidity	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)
	Dimension (WxDxH, mm)	227 x 261 x 126 mm	227 x 261 x 126 mm	227 x 261 x 126 mm	227 x 261 x 126 mm	227 x 261 x 126 mm
Physical	Weight	5.70 kg	5.70 kg	5.70 kg	5.70 kg	5.70 kg
	Construction	Extru	ded Aluminum with Heavy Duty	Metal	Extruded Aluminum v	with Heavy Duty Metal
	Mounting	Wall	Wall	Wall	Wall	Wall
Operating System	Microsoft® Windows®	• Window	s® 8 • Windows® Embedded 8 s® 7 • Windows® Embedded 9	Standard 7	• Windows® 7 • Window	
Certification	Safety Certifications	• CE • F	CC Class A • EN 50155 • EN	• CE • FCC Class A • El	N 50155 • EN 50121-3-2	











	DE-1000	DE-1000L	DE-1000P	DE-	1001	DE-1001L
DS-1002P-PP	DE-1000	DE-1000L	DE-1000P	DE-1001-E	DE-1001-P	DE-1001L-E
Intel® 4th Generation: G1820TE / i3-4330TE / i5- 4570TE / i7-4770TE Supported	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845
2.2 GHz / 2.4 GHz / 2.7 GHz / 2.3 GHz	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz
2/2/2/4	4	4	4	4	4	4
AMI 128Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI
Intel® Q87	-	-	-	-	-	-
DDR3 / DDR3L 1333MHz / 1600MHz (un-buffered and non-ECC) 16 GB	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)	DDR3L 1066 / 1333MHz (un-buffered and non-EC)
2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM
Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable
1x DVI 2x DisplayPort	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort
Triple	Dual	Dual	Dual	Dual	Dual	Dual
2	-	-	-	-	1	-
-	-	-	-	1 (PCIe x1)	-	1 (PCIe x1)
2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe
GbE1: Intel® 82583V, GbE2: Intel® i217LM, GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN and PXE	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN and PXE	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN, PXE GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN, PXE GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN and PXE	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN and PXE	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN, PXE GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN
4x 802.3at Compliant PoE Port The Maximum DC Power Delivery on Each PoE is 25W@DC 56V Input	-	-	4x 802.3at Compliant PoE Port The Maximum DC Power Delivery on Each PoE is 25W@DC 56V Input	-	-	-
10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S
1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out ports 1~255 sec. System Rese	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out Software Programmable	1x Mic-in, 1x Speak-out
					pports 1~255 sec. System Re	
2x 2.5" SATA SSD/HDD Bay 2x mSATA	2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay 1x mSATA (Shared by
(1x Shared by Mini-PCle Socket)	1x m:	SATA (Shared by Mini-PCIe So	ocket)	1x mSATA (Shared b	y Mini-PCle Socket)	Mini-PCle Socket)
1x CFast	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast
1	1	1	1	1	1	1x CFast 1
1 4	1 1	1	1	1 1	1	1x CFast 1 1
1 4 4	1 1 4	1 1 4	1 1 4	1 1 4	1 1 4	1x CFast 1 1 4
1 4 4 4 in/4 out	1 1 4 4 in/4 out	1 1 4 4 in/4 out	1 1 4 4 in/4 out	1 1 4 4 in/4 out	1 1 4 4 in/4 out	1x CFast 1 1 4 4 in/4 out
1 4 4 4 in/4 out 6x RS-232/422/485	1 1 4 4 in/4 out 6x RS-232/422/485	1 1 4 4 in/4 out 6x RS-232/422/485	1 1 4 4 in/4 out 6x RS-232/422/485	1 1 4 4 in/4 out 6x RS-232/422/485	1 1 4 4 in/4 out 6x RS-232/422/485	1x CFast 1 1 4 4 in/4 out 6x RS-232/422/485
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS	1x CFast 1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS
1 4 4 4 in/4 out 6x RS-232/422/485	1 1 4 4 in/4 out 6x RS-232/422/485	1 1 4 4 in/4 out 6x RS-232/422/485	1 1 4 4 in/4 out 6x RS-232/422/485	1 1 4 4 in/4 out 6x RS-232/422/485	1 1 4 4 in/4 out 6x RS-232/422/485	1x CFast 1 1 4 4 in/4 out 6x RS-232/422/485
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1x CFast 1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 Yes	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 Yes	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes
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1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 Yes Yes 3 AT, ATX	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 Yes Yes 3 AT, ATX 9-48VDC	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 1 Yes Yes 3 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 24V/9.2A, 220W	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A,	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 24V/5A, 120W 0°C	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A,	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 1 Yes Yes 3 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 24V/9.2A, 220W	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 24V/5A, 120W 0°C	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W
1 4 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 1 Yes Yes 3 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 24V/9.2A, 220W with inflow: -10°C to 60°C (with Industrial Grade Peripherals) -20°C to 80°C	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am [wi	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 th Industrial Grade Periphera	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 24V/5A, 120W 0°C Ils]	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am (w	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 th Industrial Grade Periphera	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W 0°C sls) -30°C to 85°C
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 1 Yes Yes 3 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 24V/9.2A, 220W kmbient with air flow: -10°C to 60°C (with Industrial Grade Peripherals) -20°C to 80°C 10% ~ 95% [non-condensing] 227 x 261 x 126 mm	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am [wi -30°C to 85°C 10% ~ 95% [non-condensing] 203 x 200 x 65 mm	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 th Industrial Grade Periphera -30°C to 85°C 10% ~ 95% [non-condensing] 203 x 200 x 65 mm	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 24V/5A, 120W 0°C 1s] -30°C to 85°C 10% ~ 95% (non-condensing) 203 x 200 x 65 mm	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am (w -30°C to 85°C 10% ~ 95% [non-condensing] 203 x 200 x 96.5 mm	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 th Industrial Grade Periphera -30°C to 85°C 10% ~ 95% [non-condensing] 203 x 200 x 96.5 mm	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 12V/5A 60W 0°C als -30°C to 85°C 10% ~ 95% [non-condensin 203 x 200 x 96.5 mm
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 1 Yes Yes 3 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 24V/9.2A, 220W Ambient with air flow: -10°C to 60°C (with Industrial Grade Peripherals) -20°C to 80°C 10% ~ 95% [non-condensing] 227 x 261 x 126 mm 5.70 kg	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am (wi -30°C to 85°C 10% ~ 95% (non-condensing)	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 th Industrial Grade Periphera -30°C to 85°C 10% ~ 95% (non-condensing)	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 24V/5A, 120W 0°C sls) -30°C to 85°C 10% ~ 95% (non-condensing)	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am [w30°C to 85°C	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 ith Industrial Grade Periphera -30°C to 85°C 10% ~ 95% (non-condensing)	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W 0°C ols) -30°C to 85°C 10% ~ 95% [non-condension
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 1 Yes Yes 3 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 24V/9.2A, 220W Ambient with air flow: -10°C to 60°C (with Industrial Grade Peripherals) -20°C to 80°C 10% - 95% [non-condensing] 227 x 261 x 126 mm	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am [wi -30°C to 85°C 10% ~ 95% (non-condensing) 203 x 200 x 65 mm 2.84 kg	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 th Industrial Grade Periphera -30°C to 85°C 10% ~ 95% [non-condensing] 203 x 200 x 65 mm	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 24V/5A, 120W 0°C ols) -30°C to 85°C 10% ~ 95% (non-condensing) 203 x 200 x 65 mm 2.84 kg	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am [w: -30°C to 85°C 10% ~ 95% (non-condensing) 203 x 200 x 96.5 mm 3.40 kg	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 th Industrial Grade Periphera -30°C to 85°C 10% ~ 95% [non-condensing] 203 x 200 x 96.5 mm	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W 0°C ols) -30°C to 85°C 10% ~ 95% (non-condensing 203 x 200 x 96.5 mm 3.40 kg
1 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 1 Yes Yes 3 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 24V/9.2A, 220W Ambient with air flow: -10°C to 60°C (with Industrial Grade Peripherals) -20°C to 80°C 10% ~ 95% (non-condensing) 227 x 261 x 126 mm 5.70 kg Extruded Aluminum with	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am (wi -30°C to 85°C 10% ~ 95% (non-condensing) 203 x 200 x 65 mm 2.84 kg Extrud	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 ith Industrial Grade Periphera -30°C to 85°C 10% - 95% (non-condensing) 203 x 200 x 65 mm 2.84 kg	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 24V/5A, 120W 0°C als] -30°C to 85°C 10% ~ 95% [non-condensing] 203 x 200 x 65 mm 2.84 kg	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am [w: -30°C to 85°C 10% ~ 95% (non-condensing) 203 x 200 x 96.5 mm 3.40 kg	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 ith Industrial Grade Periphera -30°C to 85°C 10% - 95% (non-condensing) 203 x 200 x 96.5 mm 3.40 kg	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W 0°C ols) -30°C to 85°C 10% ~ 95% [non-condensing 203 x 200 x 96.5 mm 3.40 kg
1 4 4 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 1 Yes Yes Yes 3 AT, ATX 9-48YDC 3-pin Terminal Block Optional AC/DC 24V/9.2A, 220W Ambient with air flow: -10°C to 80°C (with Industrial Grade Peripherals) -20°C to 80°C 10% - 95% (non-condensing) 227 x 261 x 126 mm 5.70 kg Extruded Aluminum with Heavy Duty Metal	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am (wi -30°C to 85°C 10% ~ 95% (non-condensing) 203 x 200 x 65 mm 2.84 kg Extrud Wall (Op	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 th Industrial Grade Periphera -30°C to 85°C 10% - 95% [non-condensing] 203 x 200 x 65 mm 2.84 kg	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes - AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 24V/5A, 120W 0°C als] -30°C to 85°C 10% ~ 95% [non-condensing] 203 x 200 x 65 mm 2.84 kg	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W Am (w -30°C to 85°C 10% ~ 95% (non-condensing) 203 x 200 x 96.5 mm 3.40 kg Extrud Wall • Windows	1 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9~48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W bient with air flow: -20°C to 7 th Industrial Grade Periphera -30°C to 85°C 10% - 95% [non-condensing] 203 x 200 x 96.5 mm 3.40 kg	1x CFast 1 4 4 in/4 out 6x RS-232/422/485 1x KB/MS 2 1 1 - Yes 1 AT, ATX 9-48VDC 3-pin Terminal Block Optional AC/DC 12V/5A, 60W 0°C ols ols -30°C to 85°C 10% ~ 95% (non-condensing) 203 x 200 x 96.5 mm 3.40 kg y Metal Wall 8 Standard

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Fanless Embedded Computers

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	Model Name	DE-1001L	DE-1	001P	DE-1002	
	Model No.	DE-1001L-P	DE-1001P-E	DE-1001P-P	DE-1002-EE	DE-1002-PP
	CPU	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845
	Frequency	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz
Processor System	Core Number	4	4	4	4	4
	BIOS	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI
	Chipset	-	-	-	-	-
	Technology	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)
Memory	Max. Capacity	8 GB	8 GB	8 GB	8 GB	8 GB
	Socket	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM
	VGA	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)
Display	DDI (HDMI/DVI/DisplayPort)	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort
	Multiple Display	Dual	Dual	Dual	Dual	Dual
	PCI	1	- Daut	1	- Daut	2
Expansion	PCle	'	1 (PCIe x1)	'	2 (PCle x1)	2
Lxpailsioii		2x Full-size Mini PCIe		2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCle
	Mini PCle	GbE1: Intel® i210-AT,	2x Full-size Mini PCIe GbE1: Intel® i210-AT,	GbE1: Intel® i210-AT.	ZX Full-Size Mini PCIe	ZX Full-Size Mini PCIe
Ethernet	Controller	GbE2: Intel® (210-AT, Support Wake-on-LAN, PXE GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE5: Intel® 82583V, Support Wake-on-LAN	GbE2: Intel® i210-AT, Support Wake-on-LAN, PXE GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN	GbE2: Intel® i210-AT, Support Wake-on-LAN, PXE GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN and PXE	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN and PXE
	PoE	-	The Maximum DC Powe	npliant PoE Port r Delivery on Each PoE is 556V Input	-	-
	Speed	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
Audio	Codec	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S
Audio	Connector	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out
	WatchDog Timer	Software Prog	rammable Supports 1~255 sec.	. System Reset	Software Programmable Sup	ports 1~255 sec. System Reset
	SSD / HDD	2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay
		1x mSATA	,	,	1x mSATA	1x mSATA
Storage	mSATA	(Shared by Mini-PCle Socket)	1x mSAIA (Shared I	by Mini-PCIe Socket)	(Shared by Mini-PCle Socket)	(Shared by Mini-PCle Socket)
	CompactFlash / CFast	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast
	SIM Socket USB 3.0	1	1	1	1	1
	USB 2.0	4	4	4	4	4
	DIO	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out
	COM Port	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485
	PS/2	1x KB/MS	1x KB/MS	1x KB/MS	1x KB/MS	1x KB/MS
I/O Ports	Antenna Hole	2	2	2	2	2
	Power Switch	1	1	1	1	1
	AT/ATX Switch	1	1	1	1	1
	External Fan Connector	-	-	-	-	-
	Remote Power On/Off and Remote Power Reset	Yes	Yes	Yes	Yes	Yes
	Universal I/O Bracket	1	1	1	2	2
	Power Type	AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX
Power	Power Supply Voltage	9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC
Power	Connector	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block
	Power Adaptor	Optional AC/DC 12V/5A, 60W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 12V/5A, 60W	Optional AC/DC 12V/5A, 60W
Environment	Operating Temperature	Ambient with air flow: -20°C to 70°C (with Industrial Grade Peripherals)		Flow: -20°C to 70°C Grade Peripherals		low: -20°C to 70°C rade Peripherals)
	Storage Temperature	-30°C to 85°C	-30°C to 85°C	-30°C to 85°C	-30°C to 85°C	-30°C to 85°C
	Relative Humidity	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)
	Dimension (WxDxH, mm)	203 x 200 x 96.5 mm	203 x 200 x 96.5 mm	203 x 200 x 96.5 mm	203 x 200 x 114.5 mm	203 x 200 x 114.5 mm
Physical	Weight	3.40 kg	3.40 kg	3.40 kg	3.66 kg	3.66 kg
Physical	Construction	Extruded Aluminum with Heavy Duty Metal	Extruded Aluminum	with Heavy Duty Metal	Extruded Aluminum	with Heavy Duty Metal
	Mounting	Wall	Wall	Wall	Wall	Wall
Operating System	Microsoft® Windows®		s® 8 • Windows® Embedded 8 s® 7 • Windows® Embedded 9			rs® Embedded 8 Standard rs® Embedded Standard 7
Certification	Safety Certifications	• CE • F	CC Class A • EN 50155 • EN	50121-3-2	• CE • FCC Class A • E	N 50155 • EN 50121-3-2









DE-1	002L	DE-1	002P	DC-1000	DC-1100
DE-1002L-EE	DE-1002L-PP	DE-1002P-EE	DE-1002P-PP	DC-1000	DC-1100
Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ D525	Intel® Atom™ E3845
1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz	1.8 GHz	1.91 GHz
4	4	4	4	2	4
AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 16Mbit SPI	AMI 64Mbit SPI
-	-	-	-	ICH8-M	-
DDR3L 1066 / 1333MHz (un-buffered and non-ECC)	DDR3 800MHz (un-buffered and non-ECC)	DDR3L 1066 / 1333MHz (un-buffered and non-ECC)			
8 GB	8 GB	8 GB	8 GB	2 GB	4 GB
2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	2x 204-Pin SO-DIMM	1x 204-Pin SO-DIMM	1x 204-Pin SO-DIMM
Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)	Yes (w/ Optional Split Cable)			
1x DVI 1x DisplayPort	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort	1x DVI 1x DisplayPort	1x DVI	1x DVI 1x DisplayPort
Dual	Dual	Dual	Dual	Dual	Dual
-	2	-	2	-	-
2 (PCle x1)	-	2 (PCIe x1)	_	_	_
2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCIe	2x Full-size Mini PCle	2x Full-size Mini PCIe	2x Full-size Mini PCle
GbE1: Intel® i210-AT,	GbE1: Intel® i210-AT,	GbE1: Intel® i210-AT,	GbE1: Intel® i210-AT,	ZX I dit-Size Milii I Gle	ZX I diti-Size Milli I Ole
GbE2: Intel® i210-AT, Support Wake-on-LAN, PXE GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN	GbE2: Intel® i210-AT, Support Wake-on-LAN, PXE GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE5: Intel® 82583V, Support Wake-on-LAN	GbE2: Intel® i210-AT, Support Wake-on-LAN, PXE GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE6: Intel® 82583V, Support Wake-on-LAN	GbE2: Intel® i210-AT, Support Wake-on-LAN, PXE GbE3: Intel® 82583V, GbE4: Intel® 82583V, GbE5: Intel® 82583V, GbE5: Intel® 82583V, Support Wake-on-LAN	GbE1: Intel® 82583V, GbE2: Intel® 82583V, Support Wake-on-LAN and PXE	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN and PXE
-	-	The Maximum DC Powe	npliant PoE Port r Delivery on Each PoE is : 56V Input	-	-
10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S
1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out	1x Mic-in, 1x Speak-out			
	ogrammable sec. System Reset		ogrammable sec. System Reset		ogrammable sec. System Reset
2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay	2x 2.5" SATA HDD Bay 2x 2.5" SATA SSD/HDD Bay		1x 2.5" SATA HDD Bay	1x 2.5" SATA HDD Bay
1x mSATA	1x mSATA	1x mSATA	1x mSATA	1x mSATA	
(Shared by Mini-PCle Socket)	(Shared by Mini-PCle Socket)				
1x CFast	1x CFast	1x CFast	1x CFast	1x CompactFlash	1x CFast
1	1	1	1	-	1
4	4	4	4	4	3
4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out
6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	6x RS-232/422/485	4x RS-232	4x RS-232/422/485
1x KB/MS	1x KB/MS	1x KB/MS	1x KB/MS	1x KB/MS	-
2	2	2	2	2	2
1	1	1	1	1	1
1	1	1	1	1	1
-	-	-	-	-	-
Yes	Yes	Yes	Yes	-	-
2	2	2	2	1	1
AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX
9~48VDC	9~48VDC	9~48VDC	9~48VDC	12VDC	9~48VDC
3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block
Optional AC/DC 12V/5A, 60W	Optional AC/DC 12V/5A, 60W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 24V/5A, 120W	Optional AC/DC 12V/5A, 60W	Optional AC/DC 12V/5A, 60W
	low: -20°C to 70°C rade Peripherals)		low: -20°C to 70°C rade Peripherals)	Ambient with air flow: -20°C to 60°C (with Industrial Grade Peripherals)	Ambient with air flow: -20°C to 70°C (with Industrial Grade Peripherals)
-30°C to 85°C	-30°C to 85°C	-30°C to 85°C	-30°C to 85°C	-20°C to 80°C	-30°C to 85°C
10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)	10% ~ 95% (non-condensing)			
203 x 200 x 114.5 mm	185 x 131 x 54 mm	185 x 131 x 54 mm			
3.66 kg	3.66 kg	3.66 kg	3.66 kg	1.58 kg	1.58 kg
Extruded Aluminum v	with Heavy Duty Metal	Extruded Aluminum	with Heavy Duty Metal	Extruded Aluminum	with Heavy Duty Metal
Wall	Wall	Wall	Wall	Wall (Optional Side / VE	SA / DIN-Rail Mounting)
	rs® Embedded 8 Standard rs® Embedded Standard 7		vs® Embedded 8 Standard vs® Embedded Standard 7	Windows® XP •Windows® XP Embedded •Windows® 7 • Windows® Embedded Standard 7	Support Windows® 8, Windows® 7, Windows® Embedded Standard 7
• CE • FCC Class A • E	N 50155 • EN 50121-3-2	• CE • FCC Class A • E	N 50155 • EN 50121-3-2	• CE • FCC Class A	• CE • FCC Class A

Convertible **Display System**



Cincoze Convertible Display Systems are all-in-one devices integrated with high-resolution screens, touch screens and computers. Our convertible display system product line that is consisted of Convertible Panel PC and Touch Monitor. A wide selection of display sizes are available from 8" to 19" with format aspect of 4:3 and 16:9, choices of single or multi-touch screen, and selected computer performance. Cincoze convertible display systems are designed with innovative technology and the highest industrial standard. They have extensive functionality that fulfill the needs for a wide range of applications.

Convertible Display Systems

Convertible Panel PCs	Convertible Touch Monitors	
Innovative Convertible Design Industrial State-of-the-art Design Multi-tasking	Innovative Convertible Design Industrial State-of-art Design	

The Core Design Concept for Cincoze Convertible Display Systems

Convertible Display Systems (CDS)

for Industrial Applications

This all-in-one Convertible Display Systems (CDS) offer display systems that are extremely flexible, exchangeable, configurable and backwards compatible. The innovative technology offers simple transformation with a three-step simple installation.

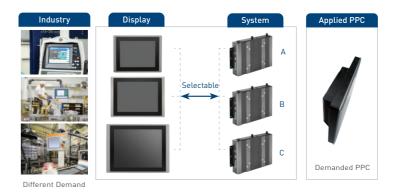
Exchangeable

CDS offers all display and system modules for building complete systems. These modules are independent and can be replaced or exchanged individually.



Configure by Demand

Different display modules (size, luminance, touch, format, etc.) are compatible with different system modules (I/O, platform, functions) and vice versa.



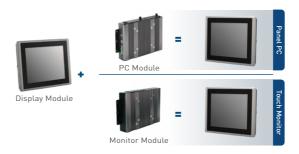
Upgrade Capability

Newly released models within the same series are backwards compatible.



Transformable

There are two types of system modules, PC and monitor modules; displays are compatible to both of them. The assembly of a Panel PC or a Touch Monitor is easily carried out by selections of the appropriate modules. Their identical appearance is also most suitable for dual display applications.



Plug-in Design

The unified connection, mechanical design, signal interface and fixation enable users to install ready-to-run systems. Installation of such system involves only three easy steps and the modular nature results extremely simple maintenance.





All-in-One Solution

- **Highly Integrated System:** The superbly engineered solution is composed of display, touch and computing technologies to provide intuitive operational experiences.
- Industrial Grade LED Backlight Panel: The panel provides a long display life, better image quality and uses less power.
- Highly Luminous Display: The display offers high visibility and smooth operation in most environments.
- **Touch Panel Integrated:** The touch offers solutions for intuitive operation required by numerous applications
- Intel® Inside: The platform offers excellent computing and graphics performance with less power consumption.
- Full Functionality: A generous provision of I/O ports offers extensive functionality and connectivity.
- **Ultra-Slim Design:** The slim compact design offers great flexibility for installation in different locations, such as VESA mount, panel mount and wall mount while giving a modern industrial look and feel at the same time.

Industrial State-of-the-art Design

- Fanless Design: Systems are designed with no moving parts.
- Aluminum Die-cast Front Frame: Rugged body structure protects against shock and collision.
- Wide Operating Temperature: Cincoze Industrial Convertible Display Systems can be operated in harsh environments.
- Flat Surface: Front screen is easy to clean.
- **IP65 Front Panel Protection:** IP65 front panel protects screen from water and dust.
- Wide Range DC Power Inputs: The power range allows Cincoze Industrial Convertible Display Systems to be deployed and powered anywhere
- Power Protection: Over current, over voltage and reverse power protection provides extra safety against faults and errors.

Multi-functional

Classic Screen and

Widescreen

Cincoze Convertible Display Systems are offered in a wide range of sizes and formats. In addition to the classic 4:3 format, modern widescreen 16:9 format is also available.

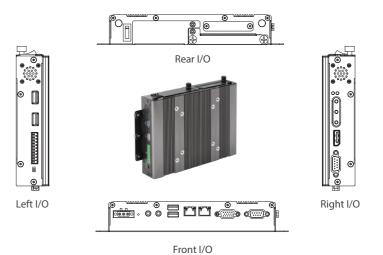


Multi-Touch and Single Touch

They are available in projected capacitive multi-touch and 5-wire resistive single touch screens.



Multi I/O for Extensive Connectivity Cincoze PC modules are designed with abundant of I/O functionality in ultra slim form factors. The multi-directional I/O port allocation makes access easily.



Wireless Communication Cincoze PC modules offer Mini-PCle and SIM Card slots for expansion of WIFI and mobile telecommunication.

Accessible Storage Design

Cincoze PC modules support 3 types of storage devices, 2.5" HDD/SDD, CFAST and SIM card. The accessible storage design allows quick data access and easy maintenance.



Multi Display **Application**

Cincoze Monitors offer cost effective Multi-display solutions for single, dual and triple display applications.



Multi Mounting Options

Cincoze Convertible Display Systems are optimized for flexible usage in every location. They offer versatile mounting possibilities and installation positions with retention of all necessary characteristics.



Multi Appearance

Cincoze Convertible Display Systems can provide the same look and feel by changing the appearance. Logos, colors of aluminum front bezel, Mylar and back cover can be customized to fit in customer's equipment or sur-



Convertible Panel PCs

- 8"~19" Multi-functional All-in-One Panel PCs
- Convertible Display Systems (CDS) Supported
- Projected Capacitive and 5-wire Resistive Touchscreen Available
- Aluminum Die-Casting Front Frame
- Front Panel IP65 Rating





Full Range of Display Sizes from 8.4" ~ 19"



Multi-Touch and Single Touch



IP65 Aluminum Die Cast Front Frame



Flat Surface for Easy Cleaning



CDS (Convertible Display Systems) Supported



Multiple Sets of I/O

Convertible Touch Monitors

- 8"~19" Full Range Touch Monitors
- Convertible Display Systems (CDS) Supported
- Projected Capacitive and 5-wire Resistive Touchscreen Available
- Aluminum Die-Casting Front Frame
- Front Panel IP65 Rating













Flat Surface for Easy

CDS (Convertible Display Systems) Supported

Convertible Display System Modules

- 8" ~ 19" Full Range Supported Display Modules
- Convertible Display Systems (CDS) Supported
- Selected PC Modules and Monitor Modules
- Configure System by Demand



Convertible Panel PCs

				_		
	Photo					
	Model Name	CV-108/P1001	CV-110	/P1001	CV-112	/P1001
	Model No.	CV-108R/P1001	CV-110R/P1001	CV-110C/P1001	CV-112R/P1001	CV-112C/P1001
	LCD Size	8.4" [4:3]	10.4" [4:3]	10.4" [4:3]	12.1" [4:3]	12.1" [4:3]
	Max. Resolution	800 x 600	800 x 600	800 x 600	800 x 600	800 x 600
	Brightness (cd/m2)	400	400	400	450	450
	Contrast Ratio	600 : 1	700 : 1	700 : 1	800 : 1	800 : 1
Display	LCD Color	262K	16.2M	16.2M	262K	262K
	Pixel Pitch (mm)	0.213 (H) x 0.213 (V)	0.264 (H) x 0.264 (V)	0.264 (H) x 0.264 (V)	0.3075 (H) x 0.3075 (V)	0.3075 (H) x 0.3075 (V)
	Viewing Angle (H-V)	150 / 130	160 / 130	160 / 130	160 / 140	160 / 140
	Backlight MTBF	30000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)
	Resistive 5-wire	V	V	- Jackson in State Backsight,	V	-
Touch		٧	V	V	V	v
	Projected Capacitive	- TM F00/F	- TM 500/5	-	- TH FOO/F	-
	CPU	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845
Processor	Frequency	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz
System	Core Number	4	4	4	4	4
	BIOS	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI
	Chipset	- DDR3L 1066 / 1333MHz	- DDR31_106/	- 6 / 1333MHz	- DDR3L 106/	- 6 / 1333MHz
	Technology	(un-buffered and non-ECC)	(un-buffered		(un-buffered	
Memory	Max. Capacity	4 GB	4 GB	4 GB	4 GB	4 GB
	Socket	1x 204-Pin SO-DIMM	1x 204-Pin SO-DIMM	1x 204-Pin SO-DIMM	1x 204-Pin SO-DIMM	1x 204-Pin SO-DIMM
Ethernet	Controller	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN and PXE	GbE1: Inte GbE2: Inte Support Wake-o		GbE2: Inte	l [®] i210-AT, l [®] i210-AT, on-LAN and PXE
	Speed	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
	SSD / HDD	1x 2.5" SATA HDD Bay	1x 2.5" SATA HDD Bay	1x 2.5" SATA HDD Bay	1x 2.5" SATA HDD Bay	1x 2.5" SATA HDD Bay
Storage	CompactFlash/CFast	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast
	SIM Socket	1	1	1	1	1
	VGA	1	1	1	1	1
	DisplayPort USB 3.0	1	1	1	1	1
	USB 2.0	3	3	3	3	3
	DIO	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out	4 in/4 out
I/O Ports	COM Port	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485
	Line-out	1	1	1	1	1
	Mic-in Power Switch	1	1	1	1	1
	Reset Button	1	1	1	1	1
	AT/ATX Switch	1	1	1	1	1
Expansion	Mini PCIe	1	1 Cafturas Da	1	1 C-ft D-	1
	Watchdog Timer	Software Programmable Supports 1~255 sec. System Reset	Software Pro Supports 1~255 s		Supports 1~255 s	ogrammable sec. System Reset
Other Features	Audio	AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)
	OSD Function	LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down
	Power Type	AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX
D	Power Requirement	9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC
Power	Connector	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block
	Power Adaptor	Optional AC/DC 12V/5A, 60W	Optional AC/D	C 12V/5A, 60W	Optional AC/D	C 12V/5A, 60W
	Operating Temperature	Ambient with air flow: -10°C to 60°C (with Industrial Grade Peripherals)		low: -10°C to 60°C rade Peripherals)		low: -10°C to 60°C rade Peripherals)
Environment	Storage Temperature	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C
	Relative Humidity	10%~95% (non-condensing)	10%~95% (noi	n-condensing)	10%~95% (no	n-condensing)
	IP Level	IP 65 Compliant Front Panel	IP 65 Compliant Front Panel	IP 65 Compliant Front Panel	IP 65 Compliant Front Panel	IP 65 Compliant Front Panel
	Dimension (WxDxH, mm)	262 x 186.2 x 65 mm	295 x 227.3 x 65 mm	295 x 227.3 x 65 mm	345 x 265.3 x 65.5 mm	345 x 265.3 x 65.5 mm
0.	Weight	2.96 kg	3.58 kg	3.58 kg	4.50 kg	4.50 kg
Physical	Construction Front Panel	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface
	Mounting	Panel / Wall / VESA Mounting		VESA Mounting		VESA Mounting
Operating System	Microsoft® Windows®	Windows® 8 • Windows® Embed- ded 8 Standard • Windows® 7 Windows®Embedded Standard 7		lows® Embedded 8 Standard lows® Embedded Standard 7		lows® Embedded 8 Standard lows® Embedded Standard 7
Certification	Safety Certification	• CE • FCC Class A	• CE • FC	CC Class A	• CE • F(CC Class A





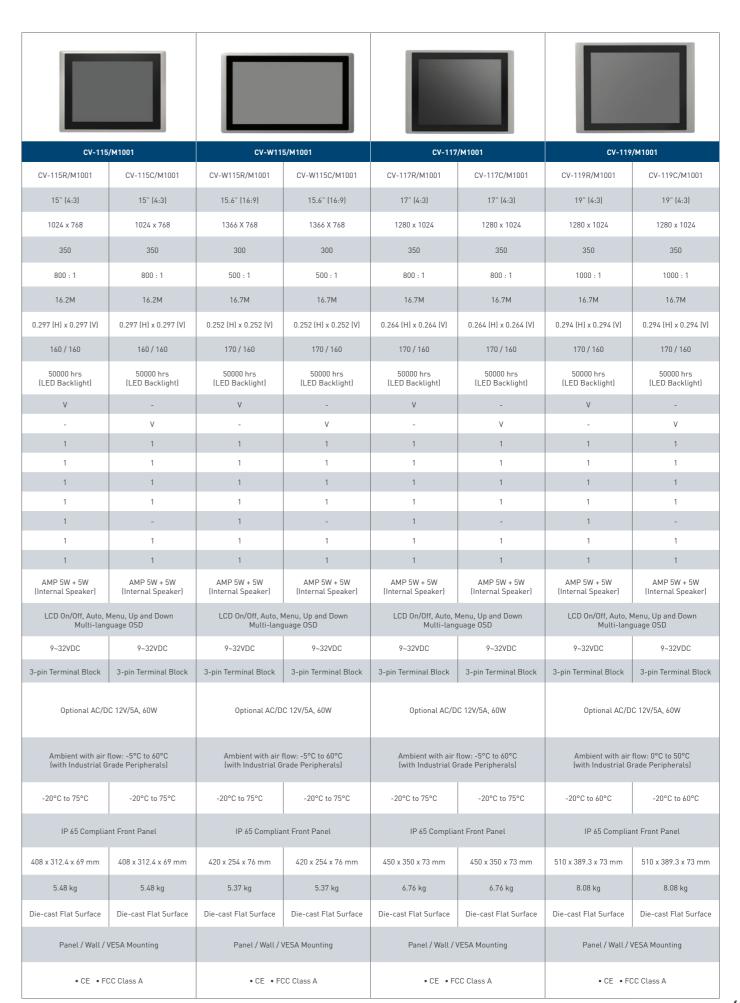




CV-115	/P1001	CV-W11	5/P1001	CV-117	/P1001	CV-119	P/P1001
CV-115R/P1001	CV-115C/P1001	CV-W115R/P1001	CV-W115C/P1001	CV-117R/P1001	CV-117C/P1001	CV-119R/P1001	CV-119C/P1001
15" (4:3)	15" [4:3]	15.6" (16:9)	15.6" (16:9)	17" [4:3]	17" [4:3]	19" (4:3)	19" [4:3]
1024 x 768	1024 x 768	1366 X 768	1366 X 768	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
350	350	300	300	350	350	350	350
800 : 1	800 : 1	500 : 1	500 : 1	800 : 1	800 : 1	1000 : 1	1000 : 1
16.2M	16.2M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
0.297 (H) x 0.297 (V)	0.297 (H) x 0.297 (V)	0.252 (H) x 0.252 (V)	0.252 (H) x 0.252 (V)	0.264 (H) x 0.264 (V)	0.264 (H) x 0.264 (V)	0.294 (H) x 0.294 (V)	0.294 (H) x 0.294 (V)
160 / 160	160 / 160	170 / 160	170 / 160	170 / 160	170 / 160	170 / 160	170 / 160
50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)
V	-	V	-	V	-	V	-
-	V	-	V	-	V	-	V
Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3845
1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz	1.91 GHz
4	4	4	4	4	4	4	4
AMI 64Mbit SPI	AMI 64Mbit SPI -	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI	AMI 64Mbit SPI
DDR3L 1066		DDR3L 1066		DDR3L 1060			6 / 1333MHz
(un-buffered a	and non-ECCJ 4 GB	(un-buffered a	and non-ECCJ 4 GB	(un-buffered a	and non-ECC) 4 GB	(un-buffered 4 GB	and non-ECC) 4 GB
1x 204-Pin SO-DIMM	1x 204-Pin SO-DIMM	1x 204-Pin S0-DIMM	1x 204-Pin SO-DIMM	1x 204-Pin S0-DIMM	1x 204-Pin SO-DIMM	1x 204-Pin SO-DIMM	1x 204-Pin SO-DIMM
GbE1: Inte		GhF1: Inte		GbE1: Inte			l [®] i210-AT,
GbE2: Inte Support Wake-o	l® i210-AT,		l [®] i210-AT,	GbE2: Inte	l® i210-AT, on-LAN and PXE	GbE2: Inte	l® i210-AT, on-LAN and PXE
10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
1x 2.5 SATA HDD Bay	1x 2.5 SATA HDD Bay	1x 2.5 SATA HDD Bay	1x 2.5 SATA HDD Bay	1x 2.5 SATA HDD Bay	1x 2.5 SATA HDD Bay	1x 2.5 SATA HDD Bay	1x 2.5 SATA HDD Bay
1x CFast	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast	1x CFast
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
3	3	3	3	3	3	3	3
4 in/4 out 2x RS-232/422/485	4 in/4 out 2x RS-232/422/485	4 in/4 out 2x RS-232/422/485	4 in/4 out 2x RS-232/422/485	4 in/4 out 2x RS-232/422/485	4 in/4 out 2x RS-232/422/485	4 in/4 out 2x RS-232/422/485	4 in/4 out 2x RS-232/422/485
2X RS-232/422/485	2X RS-232/422/485	2X R5-232/422/485	2X RS-232/422/485	2X RS-232/422/485	2X RS-232/422/485	2X KS-232/422/485	2X RS-232/422/485
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1
Software Pro Supports 1~255 s		Software Pro Supports 1~255 s		Software Pro Supports 1~255 s	ogrammable ec. System Reset		ogrammable sec. System Reset
AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)	AMP 2W + 2W (Internal Speaker)
LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down	LCD On/Off, Brightness Up/Down
AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX	AT, ATX
9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC	9~48VDC
3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block
Optional AC/D	C 12V/5A, 60W	Optional AC/D	C 12V/5A, 60W	Optional AC/D	C 12V/5A, 60W	Optional AC/D	C 12V/5A, 60W
Ambient with air fl (with Industrial G		Ambient with air fl (with Industrial G		Ambient with air f (with Industrial G	low: -10°C to 60°C rade Peripherals)		flow: -5°C to 50°C rade Peripherals)
-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 60°C	-20°C to 60°C
10%~95% (no	n-condensing)	10%~95% (no	n-condensing)	10%~95% (no	n-condensing)	10%~95% (no	n-condensing)
IP 65 Complia	nt Front Panel	IP 65 Complia	nt Front Panel	IP 65 Complia	nt Front Panel	IP 65 Complia	nt Front Panel
408 x 312.4 x 68 mm	408 x 312.4 x 68 mm	420 x 254 x 75 mm	420 x 254 x 75 mm	450 x 350 x 72 mm	450 x 350 x 72 mm	510 x 389.3 x 72 mm	510 x 389.3 x 72 mm
5.70 kg	5.70 kg	5.59 kg	5.59 kg	6.98 kg	6.98 kg	8.30 kg	8.30 kg
Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface
Panel / Wall / \		Panel / Wall / V			/ESA Mounting		VESA Mounting
	s® Embedded 8 Standard s® Embedded Standard 7	• Windows® 8 • Window • Windows® 7 • Window	s® Embedded 8 Standard s® Embedded Standard 7	• Windows® 8 • Window • Windows® 7 • Window	s® Embedded 8 Standard s® Embedded Standard 7	• Windows® 8 • Window • Windows® 7 • Window	
• CE • FC	CC Class A	• CE • FC	CC Class A	• CE • F0	CC Class A	• CE • F0	CC Class A

Convertible Touch Monitors

	Photo						
	Model Name	CV-108/M1001	CV-110	/M1001	CV-112/M1001		
	Model No.	CV-108R/M1001	CV-110R/M1001	CV-110C/M1001	CV-112R/M1001	CV-112C/M1001	
	LCD Size	8.4" [4:3]	10.4" (4:3)	10.4" [4:3]	12.1" [4:3]	12.1" [4:3]	
	Max. Resolution	800 x 600	800 x 600	800 x 600	800 x 600	800 x 600	
	Brightness (cd/m2)	400	400	400	450	450	
	Contrast Ratio	600 : 1	700 : 1	700 : 1	800 : 1	800 : 1	
Display	LCD Color	262K	16.2M	16.2M	262K	262K	
	Pixel Pitch (mm)	0.213 (H) x 0.213 (V)	0.264 (H) x 0.264 (V)	0.264 (H) x 0.264 (V)	0.3075 (H) x 0.3075 (V)	0.3075 (H) x 0.3075 (V)	
	Viewing Angle (H-V)	150 / 130	160 / 130	160 / 130	160 / 140	160 / 140	
	Backlight MTBF	30000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	
Touch	Resistive 5-wire	V	V	-	V	-	
Toden	Projected Capacitive	-	-	V	-	V	
	VGA Input	1	1	1	1	1	
	DVI-D Input	1	1	1	1	1	
_	DisplayPort Input	1	1	1	1	1	
System	USB 2.0 Input	1	1	1	1	1	
	RS-232 Input (Resistive Only) Audio Input	1	1	1	1	1	
	Power Switch	1	1	1	1	1	
Other	Audio	AMP 5W + 5W (Internal Speaker)	AMP 5W + 5W (Internal Speaker)	AMP 5W + 5W (Internal Speaker)	AMP 5W + 5W (Internal Speaker)	AMP 5W + 5W (Internal Speaker)	
Features	OSD Function	LCD On/Off, Auto, Menu, Up and Down Multi-language OSD	LCD On/Off, Auto, N Multi-lang		LCD On/Off, Auto, Menu, Up and Down Multi-language OSD		
	Power Requirement	9~32VDC	9~32VDC	9~32VDC	9~32VDC	9~32VDC	
	Connector	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	3-pin Terminal Block	
Power	Power Adaptor	Optional AC/DC 12V/5A, 60W	Optional AC/D	C 12V/5A, 60W	Optional AC/DC 12V/5A, 60W		
	Operating Temperature	Ambient with air flow: -5°C to 60°C (with Industrial Grade Peripherals)	Ambient with air f (with Industrial G		Ambient with air f (with Industrial G		
Environment	Storage Temperature	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C	
	IP Level	IP 65 Compliant Front Panel	IP 65 Complia	nt Front Panel	IP 65 Complia	nt Front Panel	
	Dimension (WxDxH, mm)	262 x 186.2 x 66mm	295 x 227.3 x 66mm	295 x 227.3 x 66 mm	345 x 265.3 x 66.5 mm	345 x 265.3 x 66.5 mm	
	Weight	2.74 kg	3.36 kg	3.36 kg	4.28 kg	4.28 kg	
Physical	Construction Front Panel	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	
	Mounting	Panel / Wall / VESA Mounting	Panel / Wall / V	/ESA Mounting	Panel / Wall / \	/ESA Mounting	
Certification	Safety Certifications	• CE • FCC Class A	• CE • FC	CC Class A	• CE • FC	CC Class A	



Convertible Display System Modules



							_
Photo							
Model Name		CV-W115		CV-117		CV-119	
N	Model No.	CV-W115R	CV-W115C	CV-117R	CV-117C	CV-119R	CV-119C
Display	LCD Size	15.6" (16:9)	15.6" (16:9)	17" [4:3]	17" [4:3]	19" [4:3]	19" [4:3]
	Max. Resolution	1366 x 768	1366 x 768	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
	Brightness (cd/m2)	300	300	350	350	350	350
	Contrast Ratio	500 : 1	500 : 1	800 : 1	800 : 1	1000 : 1	1000 : 1
	LCD Color	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
	Pixel Pitch (mm)	0.252 (H) x 0.252 (V)	0.252 (H) x 0.252 (V)	0.264 (H) x 0.264 (V)	0.264 (H) x 0.264 (V)	0.294 (H) x 0.294 (V)	0.294 (H) x 0.294 (V)
	Viewing Angle (H-V)	170 / 160	170 / 160	170 / 160	170 / 160	170 / 160	170 / 160
	Backlight MTBF	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)	50000 hrs (LED Backlight)
Touch	Resistive 5-wire	V	-	V	-	V	-
	Projected Capacitive	-	V	-	V	-	V
Environment	Operating Temperature	Ambient with air flow: -10°C to 60°C (with Industrial Grade Peripherals)		Ambient with air flow: -10°C to 60°C (with Industrial Grade Peripherals)		Ambient with air flow: -5°C to 50°C (with Industrial Grade Peripherals)	
	Storage Temperature	-20°C to 60°C	-20°C to 60°C	-30°C to 85°C	-30°C to 85°C	-20°C to 60°C	-20°C to 60°C
	Relative Humidity	10%~95% (non-condensing)		10%~95% (non-condensing)		10%~95% (non-condensing)	
	IP Level	IP 65 Compliant Front Panel		IP 65 Compliant Front Panel		IP 65 Compliant Front Panel	
Physical	Dimension (WxDxH, mm)	420 x 254 x 66.2 mm	420 x 254 x 66.2 mm	450 x 350 x 63.2 mm	450 x 350 x 63.2 mm	510 x 389.3 x 63.2 mm	510 x 389.3 x 63.2 mm
	Weight	4.25 kg	4.25 kg	5.64 kg	5.64 kg	6.96 kg	6.96 kg
	Construction Front Panel	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface	Die-cast Flat Surface
Certification	Cafaty	• CE • FCC Class A	• CE • FCC Class A	• CE • FCC Class A	• CE • FCC Class A	• CE • FCC Class A	• CE • FCC Class A

CDS PC Module



	Model Name	P1001		
	Model No.	P1001		
	CPU	Intel® Atom™ E3845		
	Frequency	1.91 GHz		
Processor	Core Number	4		
System	BIOS	AMI 64Mbit SPI		
		AMI OHMBIL SI T		
	Chipset	DDR3L 1066 / 1333MHz		
	Technology	(un-buffered and non-ECC)		
Memory	Max. Capacity	4 GB		
	Socket	1x 204-Pin SO-DIMM		
Ethernet	Controller	GbE1: Intel® i210-AT, GbE2: Intel® i210-AT, Support Wake-on-LAN and PXE		
	Speed	10/100/1000 Mbps		
	SSD / HDD	1x 2.5" SATA HDD Bay		
Storage	CompactFlash/CFast	1x CFast		
	SIM Socket	1		
	VGA	1		
	DisplayPort	1		
	USB 3.0	1		
	USB 2.0 DIO	3 4 in/4 out		
/O Ports	COM Port	2x RS-232/422/485		
	Line-out	1		
	Mic-in	1		
	Power Switch	1		
	Reset Button	1		
	AT/ATX Switch	1		
Expansion	Mini PCle	Software Programmable		
	Watchdog Timer	Software Programmable Supports 1~255 sec. System Reset		
Other Features	Audio	AMP 2W + 2W (Internal Speaker) LCD On/Off,		
	OSD Function	Brightness Up/Down		
	Power Type	AT, ATX		
Power	Power Requirement	9~48VDC		
	Connector	3-pin Terminal Block		
	Power Adaptor	Optional AC/DC 12V/5A, 60W		
	Operating Temperature	Ambient with air flow: -20°C to 70°C (with Industrial Grade Peripherals)		
Environment	Storage Temperature	-30°C to 85°C		
	Relative Humidity	10%~95% (non-condensing)		
	Dimension (WxDxH, mm)	204.5 X 149 X 37.5 mm		
	Weight	1.34 kg		
Physical	Construction	Extruded Aluminum with Heavy Duty Metal		
	Mounting	Panel / Wall / VESA Mounting		
Operating System	Microsoft® Windows®	Windows® 8 Windows® Embedded 8 Standard Windows® 7 Windows® Embedded Standard 7		
Certification	Safety Certifications	• CE • FCC Class A		

CDS Monitor Module



	Model Name	M1001					
	Model No.	M1001					
	VGA Input	1					
	DVI-D Input	1					
System	DisplayPort Input	1					
System	USB 2.0 Input	1					
	RS232 Input (Resistive Only)	1					
	Audio Input	1					
Other	Audio	AMP 5W + 5W (Internal Speaker)					
Features	OSD Function	LCD On/Off, Auto, Menu, Up and Down Multi-language OSD					
	Power Requirement	9~32VDC					
Power	Connector	3-pin Terminal Block					
	Power Adaptor	Optional AC/DC 12V/5A, 60W					
Environment	Operating Temperature	Ambient with air flow: -5°C to 60°C (with Industrial Grade Peripherals)					
	Storage Temperature	-20°C to 75°C					
	Dimension (WxDxH, mm)	204.5 X 149 X 38.5 mm					
D	Weight	1.12 kg					
Physical	Construction	Extruded Aluminum with Heavy Duty Metal					
	Mounting	Panel / Wall / VESA Mounting					
Certification	Safety Certifications	• CE • FCC Class A					



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