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 high-ly 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

<table>
<thead>
<tr>
<th>Concept Design</th>
<th>Product Planning</th>
<th>Design Review</th>
<th>Prototype Building</th>
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<tr>
<td>- Analyze Needs&lt;br&gt;- Create Concept</td>
<td>- Define Specifications&lt;br&gt;- Industrial Design&lt;br&gt;- Sourcing Strategy</td>
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<th>Pilot Production</th>
<th>Mass Production</th>
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<td>- Component Replacement&lt;br&gt;- Technical Support&lt;br&gt;- Warranty Support</td>
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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.
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 your system.

2. **Software Installation**: We can install an operating system (OS) or a customized image based on the request.

3. **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

**OEM/ODM Services**

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 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.

**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.

**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.

**Electronic Design**

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

**Mechanical Design**

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

**Thermal Design**

In order to help our customers overcome thermal issues, Cincoze is equipped with thermal simulation tools along with physical test benches to assure thermal performance of any mechanical design.
About Cincoze
Innovative Produce Line
Fanless Embedded Computer
Convertible Display System

At Cincoze we are continuously looking to improve our internal processes.

Within Cincoze we pay attention to every detail.

We know that to develop the specialist know-how needed to be experts one needs to have the best people and invest in them.

It is through attention to detail that others will judge us – it is a representation of our company and our products’ quality.

External (Customers & Partners)
We show outsiders the quality of our company and products by the quality of our people – that is what they see.

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 eco-friendly 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 solutions 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

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 tools and sets. All team members continually undergo training on a wide range of products to be able to respond swiftly and effectively in any situation.

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

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-to-date technology, access to specialized resources and expertized services.

Meticulous Reliability Testing Ensures Design and Production Quality
Electrical Test
Environmental Test
Function Test
Vibration Test
Drop Test
Burn-in Test

Innovative Produce Line
Fanless Embedded Computer
Convertible Display System
Innovative Product 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 of 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.

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 in 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 these 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 consumption.

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.

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.

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

Multi-Display
Power over Serial
Multi-LAN
RAID
DIO
PoE
Power Ignition
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 in 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.

### 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.

- **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 anti-vibration solution that gives the system extra stability and increases life-span of the device.
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 polarity.
- **Over Voltage Protection**: Protects the system from over voltage up to 75 VDC ± 15%.
- **Over Current Protection**: Protects the system from over current up to 15~20 Amps.

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.

**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.
The Key Features of Cincoze Fanless Embedded Computers

1. 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 triple-independent display.

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-PCle, and mSATA, offering the greatest flexibility for many different applications.

PCI/PCle Expansion

Superior / Efficient series support removable extension modules with PCI/PCle 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-PCle 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.

**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.
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.

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.

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
**Efficient Series**
Fanless Embedded Computers

- OnboardIntel® 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

**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-PCIe Sockets with Universal I/O Bracket Supported
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| System Memory | Technology | DDR3 / DDR3L 1333MHz / 1600MHz | | | | | | | | |
| BIOS | AMI 128Mbit SPI | | | | | | | | |

| PS/2 | 1x KB/MS | 1x KB/MS | 1x KB/MS | 1x KB/MS | 1x KB/MS | 1x KB/MS | 1x KB/MS | 1x KB/MS | 1x KB/MS | 1x KB/MS |
| VGA | Yes | | | | | | | | | |
## Fanless Embedded Computers

### Model Name
- **DS-1002L**
- **DS-1002P**
- **DE-1000**
- **DE-1000L**
- **DE-1000P**
- **DE-1001**
- **DE-1001L**

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### Details

- **CE**
- **FCC**
- **EN 50155**
- **EN 50121-3-2**

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### Power Supply

- **Voltage**: 12VDC / 5A
- **Frequency**: 120W

### Expansion

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### System Reset

- **Supports 1~255 sec. System Reset**
- **Supports Wake-on-LAN, PXE**
- **Supports Wake-on-LAN and PXE**
- **Supports Wake-on-LAN, PXE**

### Environment

- **Operating Temperature**: -10°C to 60°C (with Industrial Grade Peripherals)
- **Storage Temperature**: -20°C to 70°C

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**Features**

- Supports Watchdog Timer
- Software Programmable (1~255 sec)
- System Reset
- Software Programmable
- Supports Wake-on-LAN
- Supports PXE Boot
- Supports TPM
- Supports Industrial Grade Peripherals
- Supports Industrial Grade Temperature
- Supports Industrial Grade Humidity
- Supports Industrial Grade Power

**Specifications**

- CPU: Intel® Atom™ D525
- Memory: DDR3L 1066 / 1333MHz
- Display: Yes
- Expansion: PCIe - 1 (PCIe x1) - 2 (PCIe x1) - 2 (PCIe x1) - 2 (PCIe x1) - -
- Storage: SSD 1x DisplayPort 1x DVI
- Power: 30W

**Operating Systems**

- Windows® 8
- Windows® 8 Standard
- Windows® 8
- Windows® 8 Standard
- Windows® 8

**Ambient Temperature**

- -20°C to 70°C

**Relative Humidity**

- 10% ~ 95% (non-condensing)
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.

The Core Design Concept for Cincoze Convertible Display Systems

1. 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.
2. 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.

3. 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.

4. 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.
About Cincoze
Innovative Produce Line
Fanless Embedded Computer
Convertible Display System

Wireless Communication
Cincoze PC modules offer Mini-PCIe 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/SSD, 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.

Accessible Storage Design

Multi Display Application

Multi Appearance
Cincoze Convertible Display Systems can provide the same look and feel by changing the appearance. Logos, colors of aluminium front bezel, Mylar and back cover can be customized to fit in customer’s equipment or surroundings.
**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

**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

**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
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<tr>
<td>USB/USB-2 Port</td>
<td>2 USB 2.0</td>
<td>2 USB 2.0</td>
<td>2 USB 2.0</td>
<td>2 USB 2.0</td>
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<tr>
<td>Power Reversal</td>
<td>9-20VDC</td>
<td>9-20VDC</td>
<td>9-20VDC</td>
<td>9-20VDC</td>
<td>9-20VDC</td>
<td>9-20VDC</td>
<td>9-20VDC</td>
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<tr>
<td>Connector</td>
<td>5-pin Terminal Block</td>
<td>5-pin Terminal Block</td>
<td>5-pin Terminal Block</td>
<td>5-pin Terminal Block</td>
<td>5-pin Terminal Block</td>
<td>5-pin Terminal Block</td>
<td>5-pin Terminal Block</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Power Adaptor</td>
<td>Optional AC/DC 12V, 5A</td>
<td>Optional AC/DC 12V, 5A</td>
<td>Optional AC/DC 12V, 5A</td>
<td>Optional AC/DC 12V, 5A</td>
<td>Optional AC/DC 12V, 5A</td>
<td>Optional AC/DC 12V, 5A</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Ambient with air flow</td>
<td>-20°C to 60°C (with Industrial Grade Peripherals)</td>
<td>-20°C to 60°C (with Industrial Grade Peripherals)</td>
<td>-20°C to 60°C (with Industrial Grade Peripherals)</td>
<td>-20°C to 60°C (with Industrial Grade Peripherals)</td>
<td>-20°C to 60°C (with Industrial Grade Peripherals)</td>
<td>-20°C to 60°C (with Industrial Grade Peripherals)</td>
<td>-20°C to 60°C (with Industrial Grade Peripherals)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-25°C to 75°C</td>
<td>-25°C to 75°C</td>
<td>-25°C to 75°C</td>
<td>-25°C to 75°C</td>
<td>-25°C to 75°C</td>
<td>-25°C to 75°C</td>
<td>-25°C to 75°C</td>
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<tr>
<td><strong>Physical</strong></td>
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</tr>
<tr>
<td>Weight</td>
<td>2.74 kg</td>
<td>3.36 kg</td>
<td>3.36 kg</td>
<td>4.28 kg</td>
<td>4.28 kg</td>
<td>5.48 kg</td>
<td>5.48 kg</td>
</tr>
<tr>
<td>Mounting Panel</td>
<td>Wall / VESA Mounting</td>
<td>Wall / VESA Mounting</td>
<td>Wall / VESA Mounting</td>
<td>Wall / VESA Mounting</td>
<td>Wall / VESA Mounting</td>
<td>Wall / VESA Mounting</td>
<td>Wall / VESA Mounting</td>
</tr>
</tbody>
</table>

### Specifications

- **Model Name**: CV-108/M1001, CV-110/M1001, CV-112/M1001, CV-115/M1001, CV-W115/M1001, CV-117/M1001, CV-119/M1001
- **Display**
  - **Screen Size**: 8.4” x 16.1”, 10” x 16.1”, 10.4” x 16.1”, 12.1” x 16.1”
  - **Max Resolution**: 600 x 800, 800 x 600, 800 x 600, 800 x 600, 800 x 600, 800 x 600, 800 x 600
- **Touch**
  - **Corner Radius**: 0.8, 0.8, 0.8, 0.8, 0.8, 0.8, 0.8
- **USB/USB-2 Port**: 2 USB 2.0, 2 USB 2.0, 2 USB 2.0, 2 USB 2.0, 2 USB 2.0, 2 USB 2.0, 2 USB 2.0
- **Power Reversal**: 9-20VDC, 9-20VDC, 9-20VDC, 9-20VDC, 9-20VDC, 9-20VDC, 9-20VDC
- **Connector**: 5-pin Terminal Block, 5-pin Terminal Block, 5-pin Terminal Block, 5-pin Terminal Block, 5-pin Terminal Block, 5-pin Terminal Block, 5-pin Terminal Block
- **Audio**
  - **Power Adaptor**: Optional AC/DC 12V, 5A, 60W
- **Power**
  - **Ambient with air flow**: -20°C to 60°C (with Industrial Grade Peripherals)
  - **Storage Temperature**: -25°C to 75°C
- **Physical**
  - **Weight**: 2.74 kg, 3.36 kg, 3.36 kg, 4.28 kg, 4.28 kg, 5.48 kg, 5.48 kg
  - **Mounting Panel**: Wall / VESA Mounting, Wall / VESA Mounting, Wall / VESA Mounting, Wall / VESA Mounting, Wall / VESA Mounting, Wall / VESA Mounting, Wall / VESA Mounting

### Other Features

- **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, IP 65 Compliant Front Panel, IP 65 Compliant Front Panel
- **Weight**: 2.74 kg, 3.36 kg, 3.36 kg, 4.28 kg, 4.28 kg, 5.48 kg, 5.48 kg
- **Mounting Panel**: Wall / VESA Mounting, Wall / VESA Mounting, Wall / VESA Mounting, Wall / VESA Mounting, Wall / VESA Mounting, Wall / VESA Mounting, Wall / VESA Mounting

### Safety Certifications

### Convertible Display System Modules

<table>
<thead>
<tr>
<th>Model Name</th>
<th>CV-108</th>
<th>CV-110</th>
<th>CV-112</th>
<th>CV-115</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Max. Resolution</td>
<td>1024 x 768</td>
<td>1024 x 768</td>
<td>1024 x 768</td>
<td>1024 x 768</td>
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<tr>
<td>Viewing Angle (H-V)</td>
<td>170 / 160</td>
<td>170 / 160</td>
<td>170 / 160</td>
<td>170 / 160</td>
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<tr>
<td>Brightness (cd/m²)</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>450</td>
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<tr>
<td><strong>Environment</strong></td>
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<tr>
<td>Relative Humidity</td>
<td>10%~95% (non-condensing)</td>
<td>10%~95% (non-condensing)</td>
<td>10%~95% (non-condensing)</td>
<td>10%~95% (non-condensing)</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Panel Type</td>
<td>Die-cast Flat Surface</td>
<td>Die-cast Flat Surface</td>
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### CDS PC Module

<table>
<thead>
<tr>
<th>Model Name</th>
<th>PCD1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor</strong></td>
<td>Intel® Atom™ E3845</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>4 GB</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>SSD / HDD 1x 2.5&quot;</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>AT, ATX</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>CE</td>
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</table>

### CDS Monitor Module

<table>
<thead>
<tr>
<th>Model Name</th>
<th>MON1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Environment</strong></td>
<td>IP 65 Compliant</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>220V (with Industrial Grade Peripherals)</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>CE</td>
</tr>
</tbody>
</table>

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### System

- **Microsoft® Windows® 8**
- **Windows® 7**
- **Linux™**

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### Physical

- **Model Name**: CV-M110
- **Display**: 1024 x 768
- **Max. Resolution**: 1024 x 768
- **Viewing Angle (H-V)**: 170 / 160
- **Brightness (cd/m²)**: 400
- **Relative Humidity**: 10%~95% (non-condensing)
- **Panel Type**: Die-cast Flat Surface
- **Construction**: Extruded Aluminum with Heavy Duty Metal
- **Mounting**: Panel / Wall / VESA Mounting
- **Certification**: CE + FCC Class A

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### CDS PC Module

- **Model Name**: PCD1
- **Processor**: Intel® Atom™ E3845
- **Memory**: 4 GB
- **Storage**: SSD / HDD 1x 2.5"
- **Power**: AT, ATX
- **Certification**: CE

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### CDS Monitor Module

- **Model Name**: MON1
- **Environment**: IP 65 Compliant
- **Power**: 220V (with Industrial Grade Peripherals)
- **Certification**: CE