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P1201 Series

Intel Elkhart Lake Platform Slim Embedded Computer



41.5mm Low-profile Design

Less Than the Standard 1U Height



One Computer, Two Purposes

Perfect as A Standalone or Panel PC

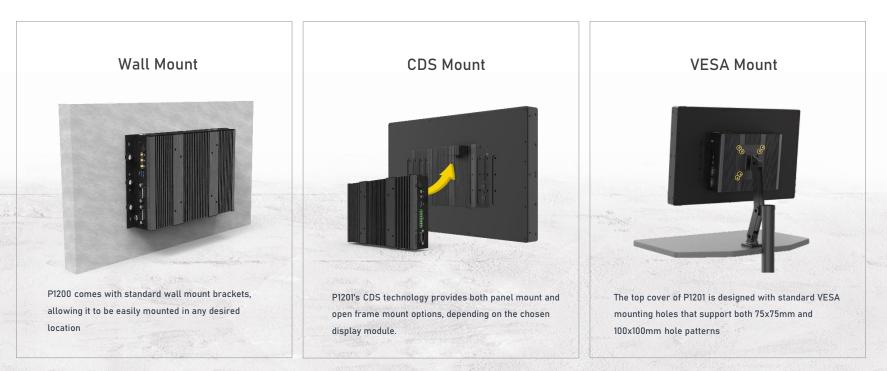


Standalone Embedded Computer

Slime Type Panel PC

Versatile Mounting Methods

Flexible from Wall, CDS, to VESA Mounting Options



Product Introduction

Selection Guide



Key Features

01 Outstanding Performance

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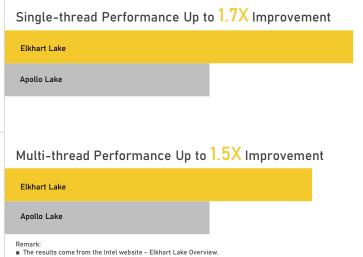
Integral Functionality

03 Industrial-grade Reliability

Intel Elkhart Lake Platform



Powered by Intel 10nm Process Technology



Compared to the previous generation platform – Apollo Lake.

Intel Atom x6000E Series



Highest Clock Speed

With the Most Processing Cores in the Elkhart Lake Platform

Intel Atom x6425E

- Support 4 Cores and 4 Threads
- Base Frequency: 2.0 GHz
- Max Turbo Frequency: 3.0 GHz
- TDP: 12W

Intel Atom x6211E

- Support 2 Cores and 2 Threads
- Base Frequency: 1.2 GHz
- Max Turbo Frequency: 3.0 GHz
- TDP: 6W

DDR4 Memory

3200MHz Data-transfer Speed

DDR4 memory on Elkhart Lake can provide faster data-transfer speeds and better performance compared to DDR3L 1866MHz on Apollo Lake.

32GB Memory Capacity

P1201 supports up to 32GB of DDR4 memory, which is significantly higher than the maximum memory capacity of 8GB for Apollo Lake.



Intel UHD Graphics



2X Graphics Performance

Features Intel's 10th-generation Graphics Engine

Intel UHD graphics has a higher number of execution units and higher clock speeds, providing up to 2 times the graphics performance over the previous generation (Intel HD Graphics 505) used in the Apollo Lake platform.

It can also support triple displays at high resolutions, delivering a more immersive and productive work environment.

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03 Industrial-grade Reliability

I/O & Connectivity



3-Sided I/O Design

Maximize Your Connectivity Options on P1200!

High-speed Connectivity

- 2x 10 / 100 / 1000Mbps LAN Ports, RJ45
- 3x 10Gbps USB3.2 Gen2 Ports, Type A Connector New
- 1x 480Mbps USB2.0 Port, Type A Connector

Other Function

- 1x Remote Power LED Function New
- 1x Remote Power On/Off Function
- 3x RS232/422/485 Serial Ports
- 8x Isolated DIO (4x DI/4x DO), 10-Pin Terminal Block



Maintenance Area

- Front Accessible 2.5" SATA Tray
- Clear CMOS Switch
- SIM Card Slot
- AT / ATX Mode Switch
- IGN 12/24V and Delay Timer Switch
- Reset Switch New

Streamline Your On-site Maintenance Process!

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Internal Expansion Socket



Support PCIe and USB 3.0 Signal WIFI / GPS / 4G Expansion Mini PCle Interconnect with SIM Socket BIOS Selectable mSATA Function New Support PCIe x2 Signal WiFi / Bluetooth Expansion M.2 Key E Type 2230 Intel CNVi Module Expansion BIOS Selectable for Intel[®] CNVi Function Enable PoE Function for Onboard LAN Ports. CFM-POE Support 2x PoE+, Individual Port 25.5W Compliance with IEEE 802.3at Standard Power Ignition Sensing Function CFM-IGN Low Voltage Detection Vehicle Battery Voltage: 12V / 24V

CDS Technology

CDS

Convertible Display System

Patent No.: M482908

P1201 supports CINCOZE patent technology – CDS which is compatible with existing industrial display modules (CV-100 series), sunlight-readable display modules (CS-100 series), and open frame display modules (CO-100 series).



Audio Integration Design



Built-in Speaker

P1201 features two built-in 2W speakers for all your audio needs. Whether customers need to play alerts or notifications, the P1201's speaker delivers clear and powerful sound in a compact and reliable package.

Onboard Mic-in / Line-out

P1201 is equipped with mic-in / line-out function, which allows customers to easily connect external audio devices to meet their specific needs.



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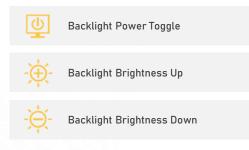
OSD Function



Easy Accessible Design

Located on the Side of P1200

P1201 features an On-Screen Display (OSD) function designed for user convenience. Located on the side of the P1201, the OSD allows for easy access to monitor on/off and brightness adjustment controls.



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Wide Operating Temperature

SGS TEST REPORT Reliability Laboratory Report No.: HC90077A/2022 1 of 4 Page: Date: October 13, 2022 CINCOZE CO., LTD. 7F., NO.122, LN.235, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY, TAIWAN, R.O.C. The following merchandise was submitted and identified by the vendor as: Product Description: Convertible Embedded System Style/ Item No .: P1201/ No.1 Total 1 set Quantity: Sep. 28, 2022 to Oct. 5, 2022 Testing Period: We have tested the submitted sample(s) as requested and the following results were obtained: Test Required: (According to client's test specification, please see following sheets in detail.) 1. Temperature Cycling Test - PLEASE SEE ATTACHED SHEETS Test Results: Signed for and on behalf of GS TAIWAN Ltd. a den Alex Chen Asst. Superviso of the law. Sinchily Laboratory No.31, We Chysian Road, New Taple Industrial Park, Thata District, New Taple CPy, Talwar 「含化胃酸化」が充分する化量が正確である。 1988-29 (2299)-3279 11(189-2)(2299)-9558 www.aca.com.tet *********** Wate aga com ter Member of SGS Group

$-40^{\circ}C - 70^{\circ}C$

Build to Withstand Extreme Conditions!

- Compliant with IEC60068-2-1 / IEC60068-2-2 / IEC60068-2-14
- With Burn-in test at CPU 100% loading and no throttling
- With extended temperature peripherals; Ambient with airflow



Shock & Vibration Proof



50G Shock

P1201 is designed to withstand specified severities of non-repetitive or repetitive shocks during operation according to IEC 60068-2-27.

5G Random Vibration

P1201 maintains its functional and structural integrity when exposed to the prescribed random vibration test requirements – IEC 60068-2-64.

1G Sinusoidal Vibration

P1201 has passed IEC 60068-2-6, ensuring that the device maintains its specified performance and does not exhibit any mechanical weaknesses or degradation.



EMC Standard for Industrial Environments

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CE VERIFICATION OF COMPLIANCE

This is to certify that the product listed below was (were) tested in the BTL EMC Laboratory to comply with the required criteria levels of the follow-mentioned Generic Standards or Product Family Standard(s) and/or Basic Standard(s) based-on the essential conformity requirements of EMC Directive 2014/30/EU.



EN 61000-6-2 + EN 61000-6-4

Emission Standard & Immunity Standard 🔤

Designed to meet the strict EMC standards of EN 61000-6-4 and EN 61000-6-2, P1201 is equipped with a New Burst Protection Board that ensures uninterrupted operation in challenging EMC environments, and excels in the following EMS standards:

- EN 61000-4-3 RS (Radio-frequency electromagnetic field)
- EN 61000-4-4 EFT (Fast transients)
- EN 61000-4-6 CS (Radio-frequency common mode)
- EN 61000-4-8 PFMF (Power-frequency magnetic field)
- EN 61000-4-11 DIP (Voltage dips and Voltage interruptions)



Burst Protection Board

Achievable Under 24VDC •-

Experience Extreme Reliability with Direct DC Input!



Safety Certification



UL / c-UL / EN / CB 62368-1

P1201 has successfully achieved UL certification, which assures customers that the product has met stringent safety standards. With UL certification, customers can have confidence in the safety and reliability of P1201, making it an ideal choice for a variety of industrial applications.

Product Introduction

Selection Guide



Ordering Information



Model Name	CPU TDP	Description
P1201-X6425E-R10	12W	Intel® Atom® x6425E Quad Core Slim Embedded Computer with CDS Technology
P1201-X6211E-R10	6W	Intel® Atom® x6211E Dual Core Slim Embedded Computer with CDS Technology

Optional Modules:

Model Name	Function	Description
CFM-PoE02	PoE	CFM Module with PoE Function, Individual Port 25.5W
CFM-IGN101	IGN	CFM Module with Power Ignition Sensing Function, 12V/24V Selectable

A SLIM AND POWER EFFICIENT COMPUTER

For Embedded and Panel-PC Application

