

ICS

2000



AMD EPYC™ 8004 "Siena" Processor
Edge AI Server



^ Edge AI Computing

- Server-level Platform : AMD EPYC™ 4th Gen 8004 "Siena" Processor, up to 64-core
- 6 DDR5 4800MHz Memory supports up to 768GB
- 2 PCIe 5.0 x16 slots with a total 1800W power budget, supporting up to dual 900W NVIDIA® or AMD 2-slot graphics cards, and 4 PCIe 5.0 x8 slots for expansion cards
- Multiple storage devices : 4 M.2 Key M and 4 Front-access U.2
- 2 LAN, 2 USB, 5 COM, 16-bit DIO, 5G/WiFi 6/4G/LTE/GPRS/UMTS, TPM 2.0 and OOB remote management
- DC 16V to 50V or AC 220V power input options with software ignition control



^ Storage Management



^ Data Analytics



Vecow

Specifications

System

Processor	AMD EPYC™ 4th Gen 8004 "Siena" Server Processor
BIOS	AMI
SIO	IT8786E
Memory	6 DDR5 RDIMM 4800MHz, up to 768GB
OS	Windows Server, Linux

I/O Interface

Serial	- 4 COM RS-232/422/485 - 1 COM RS-232
USB	2 USB 3.2 Gen1
Isolated DIO	16 Isolated DIO : 8 DI, 8 DO
Display	- VGA : Up to 1920 x 1200 @60Hz - DisplayPort : Up to 1920x 1200 @60Hz
LED	Power, HDD, BMC
SIM Card	3 External Nano SIM Card Socket

Expansion

PCIe	- 2 PCIe x16 slot with PCIe 5.0 x16 signal - 4 PCIe x16 slot with PCIe 5.0 x8 signal
M.2	- 2 M.2 Key B Socket (3042/3052, PCIe1/USB3.0) with SIM - 1 M.2 Key E Socket (2230, PCIe1)
mini PCIe	1 Full size Mini-PCIe socket (PCIe1/USB2) with SIM

Storage

U.2	4 U.2 front access tray (PCIe x4) *M.2 supported by optional accessory
M.2	4 M.2 Key M (2280, PCIe 4.0 x4)

Ethernet

LAN 1	Intel® I350 GigE LAN
LAN 2	Intel® I350 GigE LAN
LAN 3	GigE MLAN for management (BMC)

Power

Power Input	ICS-2000 : 16V to 50V, DC-in ICS-2000A : 90V to 240V, AC-in (3000W @220V)
Power Interface	ICS-2000 : 6-pin Terminal Block : V+, V+, V+, V-, V-, V- ICS-2000A : 3-pin C14-type AC Plug
Ignition Control	16-mode Software Ignition Control
Remote Switch	3-pin Terminal Block

Others

TPM	Infineon SLB9670 supports TPM 2.0, SPI Interface
Watchdog Timer	Reset : 1 to 255 sec./min. per step
Smart Mgmt.	Wake on LAN supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	345mm x 405mm x 200mm (13.58" x 15.94" x 7.87")
Weight	13.1Kg (28.88lb)
Mounting	Wallmount by mounting bracket

Environment

Operating Temperature	ICS-2000 : -25°C to 45°C ICS-2000A : -5°C to 45°C
Storage Temperature	ICS-2000 : -40°C to 85°C (-40°F to 185°F) ICS-2000A : -20°C to 85°C (-4°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @45°C
Shock	MIL-STD-810G method 514.6
Vibration	MIL-STD-810G method 516.6
EMC	CE, FCC, EN50155, EN50121-3-2

Order Information

Model	PCIex16	PCIex8	U.2 Tray	Power Input
ICS-2000	2	4	2	DC
ICS-2000A	2	4	2	AC

CPU List

Series	Model	Cores	GHz	TDP
EPYC Siena	8224P	24	2.55	160

* For others CPU model, please check with Vecow Team.

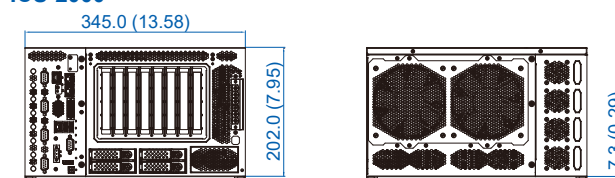
Accessories

DDR5 96G	Certified DDR5 96GB 4800MHz RAM
DDR5 64G	Certified DDR5 64GB 4800MHz RAM
DDR5 32G	Certified DDR5 32GB 4800MHz RAM
DDR5 16G	Certified DDR5 16GB 4800MHz RAM
PWS-1000W-24V	1000W, 24V, 90V AC to 264V AC Power Supply
PWS-1500W-24V	1500W, 24V, 90V AC to 264V AC Power Supply
PWS-3000W-24V	3000W, 24V, 90V AC to 264V AC Power Supply
TMK2-20P-100	Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm
TMK2-20P-500	Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm
TMB-TMBK-20P	Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting
M.2 Storage Module	M.2 Key M Storage Module
U.2 Storage Module	U.2 Storage Module
M.2 to U.2 Module	M.2 to U.2 Module
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

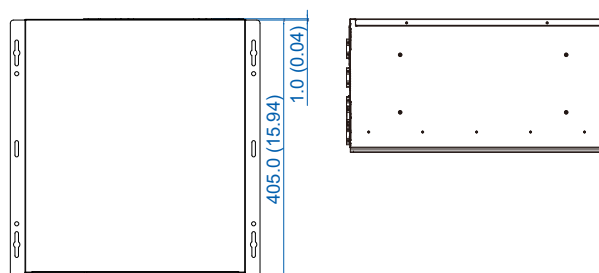
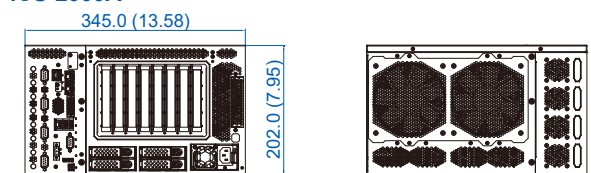
Dimensions & Drawing

Unit : mm (inch)

ICS-2000



ICS-2000A



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