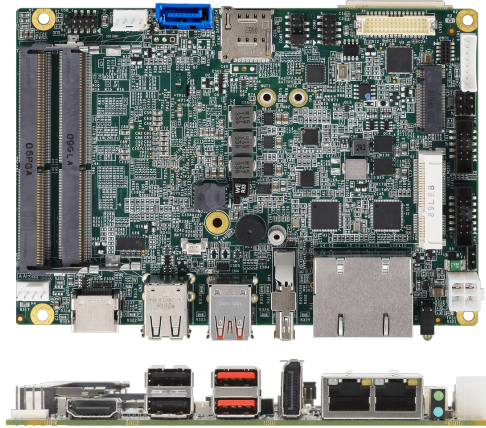




INDUSTRIAL MOTHERBOARD

CT-DR101

3.5" SBC Industrial Motherboard with AMD Ryzen™ Embedded R1000/V1000 Series Processor



Features

- Support AMD Ryzen™ Embedded R1000/V1000 Series
- 2x 260-pin DDR4 2400 SO-DIMM. Max. up to 32GB
- 2x Intel® GbE (Support Wake-on-LAN and PXE)
- Triple independent display Supported
- 1x Front Panel with Audio support by internal header
- 1x full-size Mini PCIe for expansion modules
- 1x M.2 B Key for 4G/5G communications & Storage
- 2x USB 3.2 Gen 2, 2x USB 2.0
- 2x COM RS-232/422/485 (internal)
- 1x SATA 6.0 Gb/s
- Watchdog timer 1~225sec. system reset
- TPM 2.0 Supported

Specifications

System

Processor

Support AMD Ryzen™ Embedded R1000/V1000 Series
 AMD Ryzen™ Embedded V1605B with Radeon™ Vega 8 Graphics, 4M Cache, 4 Cores, 8 Threads, Up to 3.6 GHz
 AMD Ryzen™ Embedded R1606G with Radeon™ Vega 3 Graphics, 4M Cache, 2 Cores, 4 Threads, Up to 3.5 GHz

System Chipset	SoC
LAN Chipset	GbE1: Intel i210 (Support Wake-on-LAN and PXE) GbE2: Intel i210 (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888S HD Audio Codec
System Memory	2x 260-Pin DDR4 2400 MHz SO-DIMM. Max. up to 32GB (ECC and Non-ECC)
Graphics	AMD Radeon™ Vega 8 (V1605B) AMD Radeon™ Vega 3 (R1606G)
BIOS	AMI uEFI 64 Mbit SPI flash
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	TPM 2.0

Display

Display Port	1x DisplayPort 1.4, DP++, Support resolution 3840 x 2160, 60Hz
HDMI	1x HDMI 2.0b, Support resolution 3840 x 2160, 60Hz (Optional)
LVDS	1x 24-bit dual channel LVDS, Support resolution up to 1920x1200, 60Hz
Multiple Display	3x Independent display for R1000 & V1000 series

Storage

M.2	1x M.2 B Key, 3042, Support SATA
SATA	1x SATA 7-Pin Connector
SIM Socket	1x SIM socket (M.2 B Key attached)

Expansion

Mini PCIe	1x Full-size Mini PCIe (PCIe x1, USB 2.0)
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Rear I/O

Display Port	1x DisplayPort
HDMI	1x HDMI
LAN	2x RJ45
USB	2x USB 3.2 Gen2 (10Gbps) 2x USB 2.0
Others	1x Power LED, 1x HDD LED indicator

Internal I/O

Audio	2x 6-Pin Front Panel Header
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COM	2x RS-232/422/485
DIO	2x 4-Bit DIO (4 In / 4 Out)
Others	1x Front Panel header 1x 4-Pin FAN Connector 1x RTC Battery Cable 1x 50-Pin High Speed Connector (PCIe x4)

Operating System

Windows	Windows 10
Linux	Linux Kernel 5.x (Fedora 30 or above / Ubuntu 19.04 or above)

Power

Power Management	ACPI OVP / OCP / Power reverse protection support
Power Mode	AT / ATX 12V
Power Connector	4-pin power connector (internal)

Environment

Form Factor	3.5" Embedded SBC
Operating Temperature	-40°C ~ 75°C, 95% (non-condensing), operating
Storage Temperature	-40°C ~ 85°C, 95% (non-condensing), Non-operating
Relative Humidity	10% ~ 90% relative humidity, non-condensing

Physical

Dimensions	146 mm x 102 mm
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Available Models

CT-DR101-V1605B
 3.5" SBC with AMD Ryzen™ Embedded V1605B, 1x DP, 1x HDMI, 2x LAN, 4x USB 3.2
 CT-DR101-R1606G
 3.5" SBC with AMD Ryzen™ Embedded R1606G, 1x DP, 1x HDMI, 2x LAN, 4x USB 3.2

Packing List

1x CT-DR10x Main Board
 1x Heat Sink and screws
 1x Front Panel Cable, 2x Buttons, 2x Audio, 2x LED Cable 300mm
 1x COM Port Cable 300mm
 1x SATA Y-Cable with SATA and SATA Power 100mm
 2x Screw for mini-PCI-e Card or M.2

* All specifications and photos are subject to change without notice.

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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