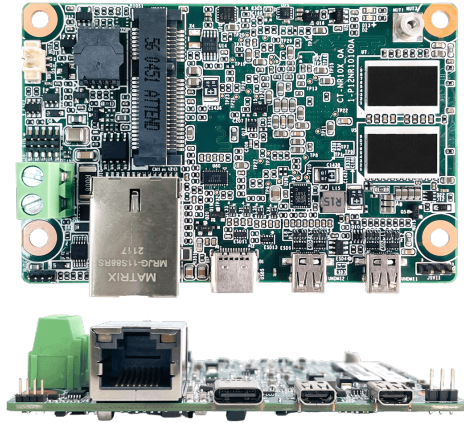




INDUSTRIAL MOTHERBOARD

CT-NR101

1.8" SBC Industrial Motherboard with AMD Ryzen™ Embedded R1000 Series Processor



Features

- Femto-ITX form factor 1.8" SBC for space-limited applications
- AMD Ryzen™ Embedded R1000 Series
- Single Channel DDR4 Memory Down 4GB upto 8GB
- HDMI 1.4 resolution supports up to 4096x2160 @ 24Hz
- Rear I/O: 1x Intel GbE, 1x USB 3.1 Gen 1, 2x Micro HDMI
- Expansion I/O: 1x Mini PCIe, 1x SMBus

Specifications

System	
Processor	Support AMD Ryzen™ Embedded R1000 Series 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)
System Memory	DDR4-2400 Single-Channel Memory 4GB (Up to 8GB, Optional)
Graphics	AMD Radeon™ Vega 3 (R1606G)
BIOS	AMI SPI 64 Mbit
TPM	TPM 2.0
Display	
HDMI	2x Micro HDMI 1.4, resolution up to 4096x2160, 24Hz
Multiple Display	2x Independent display (1x playback)
Storage	
SSD/HDD	eMMC up to 64GB
Expansion	
Mini PCIe	1x Full-size Mini PCIe (PCIe x1, USB 2.0)
I/O	
DIO	2x 5-pin header (4 In/4 Out)
LAN	1x RJ45
USB	1x USB 3.2 Gen 1 Type C (5V/3A) 1x USB 2.0 (4-pin header, internal)
Internal I/O	
Others	1x RTC battery cable
Operating System	
Windows	Windows 10
Linux	Linux Kernel 5.x (Fedora 30 or above / Ubuntu 19.04 or above)
Power	
Power Management	ACPI
Power Mode	DC 12V
Power Connector	2-pin Terminal Block Pitch=5.0mm
Environment	
Form Factor	1.8" Embedded SBC
Operating Temperature	0°C ~ 60°C, 90% (non-condensing), operating
Storage Temperature	-40°C ~ 85°C, 90% (non-condensing) , Non-operating
Relative Humidity	5% ~ 90% relative humidity, non-condensing

Physical	
Dimensions	84 mm x 55 mm

Available Models

CT-NR101-R1606G
1.8" SBC with AMD Ryzen™ Embedded R1606G, 2x Micro HDMI, 1x USB 3.2 Gen 1 Type-C

Packing List

1x CT-NR101x Main Board
1x Heat Sink and screws
1x Front Panel Cable w/ 2x switch & 2x LED
1x Screw for Mini PCIe

* 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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