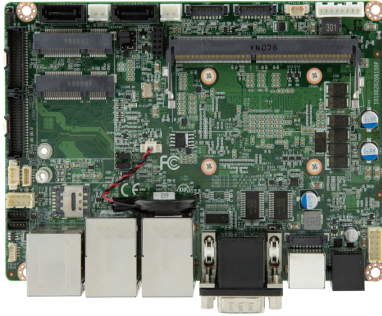




# EmCORE-a10R2

AMD Ryzen Embedded R1000 R1102G Processor 3.5" Compact Board



## Features

- Soldered onboard AMD R1102G APU processor
- Dual Gigabit Ethernet ports
- DisplayPort and two dual-channel LVDS ports
- Integrated micro SIM Socket for mobile telecommunication

Miniboard

## System

CPU	Soldered onboard AMD Ryzen R1102G 1.2GHz (Base)/ 2.6GHz (Turbo) Processor
Memory	1 x DDR4 SO-DIMM socket, supporting 2400MHz SDRAM up to 16GB
BIOS	AMI UEFI BIOS
Watchdog Timer	1~255 levels reset

## I/O

Super I/O	Fintek F81866
USB Port	2 x USB 3.0/2.0 ports 6 x USB 2.0 ports
Serial Port	6 x COM ports

Expansion	2 x Mini-Card Sockets (1 x Full size, 1 x Half size)
	1 x Micro SIM socket (for Full size Mini-card)

Storage	2 x Serial ATA ports with 600MB/s HDD transfer rate
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Ethernet Chipset	2 x Realtek RTL8111 PCIe GbE controllers
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Digital I/O	8-bit Programmable
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Audio	Realtek ALC269 2.1 Channel HD Audio CODEC, MIC-in/ Line-in/ Line-out
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## Display

Graphic Chipset	Integrated Vega Core Graphics controller
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2 x Dual Channel 24-bit LVDS

Graphic Interface	1 x DisplayPort
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Total display: choose two from three

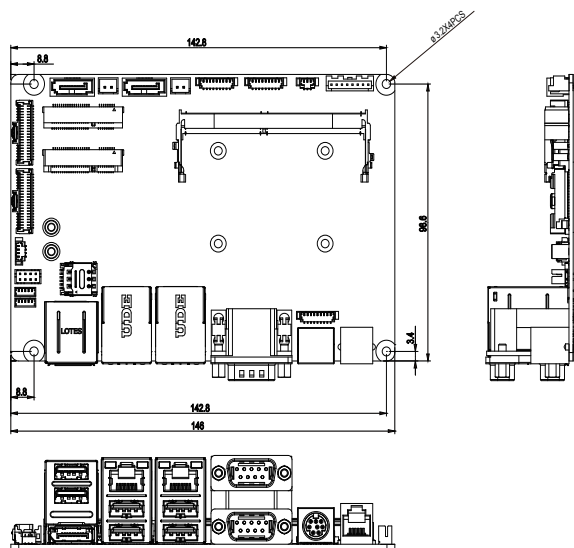
## OS Support

Windows 10 IoT 64-bit
Linux Ubuntu

## Mechanical & Environmental

Power Requirement	+8V - 13.2V DC-In
Power Consumption	1.53A@12V (Typical)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimensions (L x W)	146 x 102 mm (5.7" x 4.0")

## Dimensions

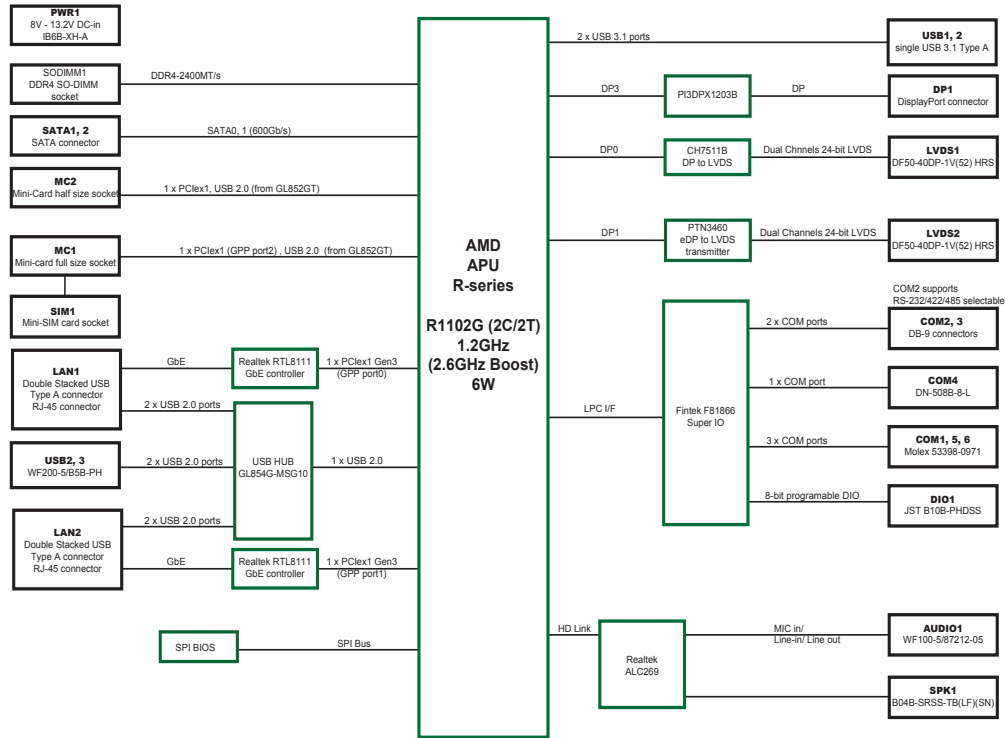


Unit: mm

All specifications are subject to change without notice.



**Block Diagram**



**Ordering Information**

EmCORE-a10R2-1102G      AMD Ryzen R1000 R1102G compact board

**Optional Accessories**

CBK-08-10R2-00      Cable kit  
 2 x USB 2.0 cables (1 port/ cable)  
 3 x COM ports cables  
 1 x AUDIO cable  
 2 x SATA & Power cables

## 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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