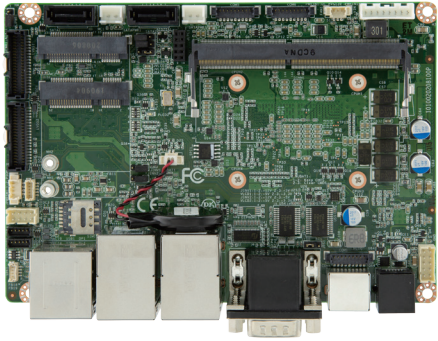




EmCORE-a10R2

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

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
Ethernet Chipset	2 x Realtek RTL8111 PCIe GbE controllers
Digital I/O	8-bit Programmable
Audio	Realtek ALC269 2.1 Channel HD Audio CODEC, MIC-in/ Line-in/ Line-out

Display

Graphic Chipset	Integrated Vega Core Graphics controller
Graphic Interface	2 x Dual Channel 24-bit LVDS 1 x DisplayPort Total display: choose two from three

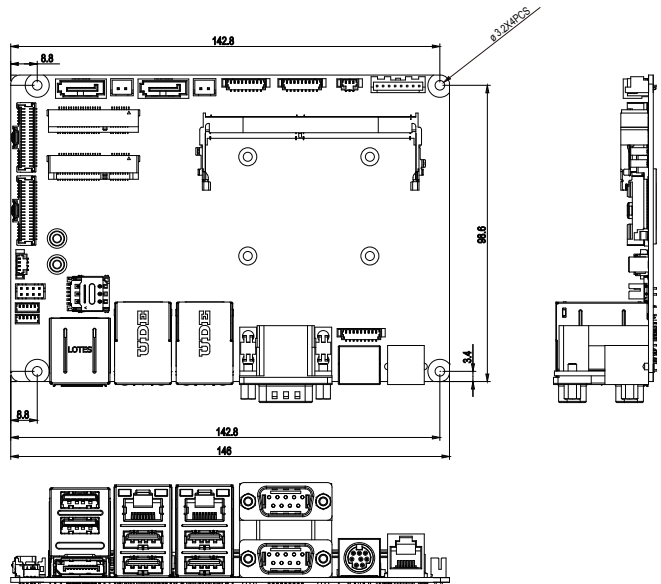
OS Support

Windows 10 IoT 64-bit
Linux Ubuntu

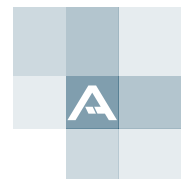
Mechanical & Environmental

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")

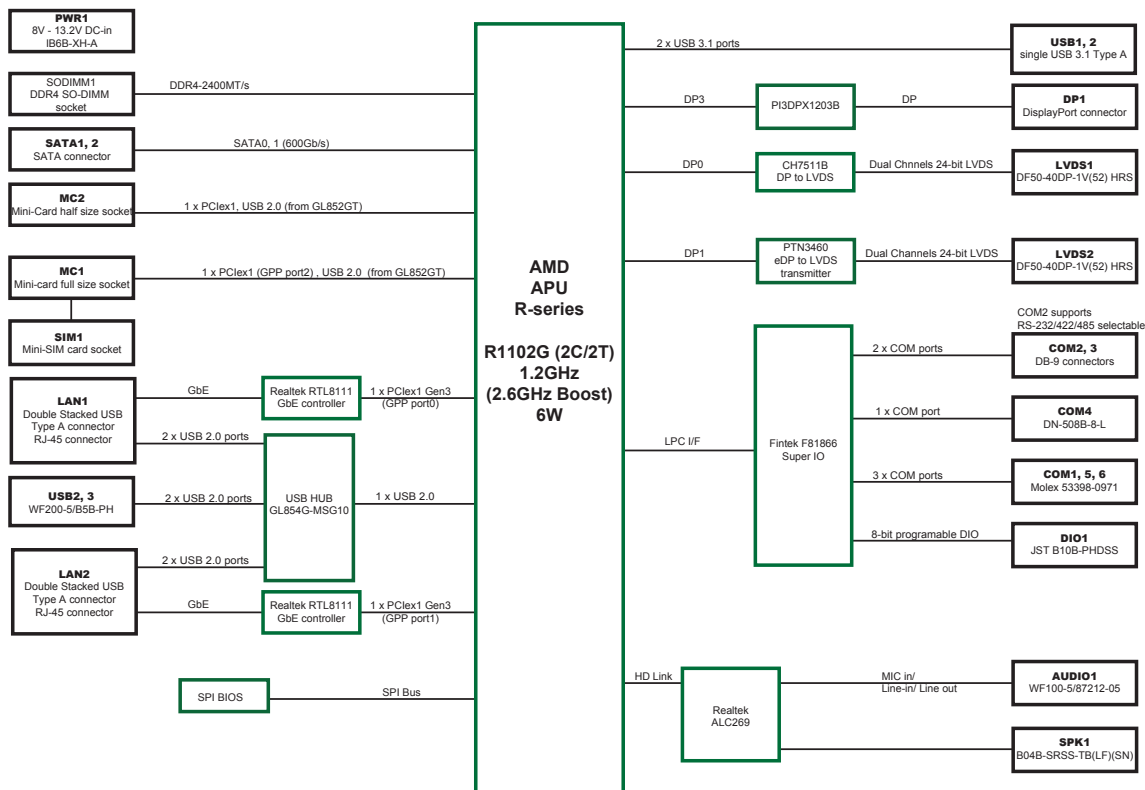
Dimensions



Unit: mm



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