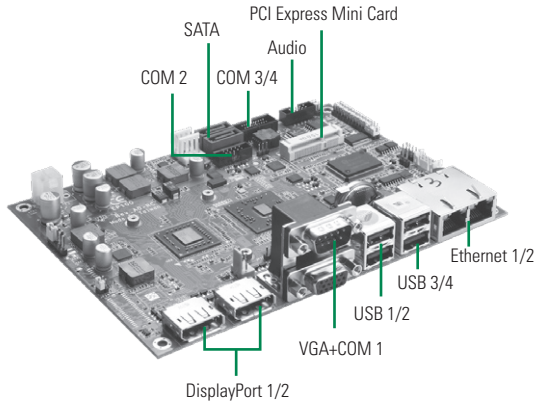


# EP100

AMD G-Series APU EPIC SBC with AMD A50M FCH, Dual DisplayPort/VGA/LVDS, Dual LANs and Audio



## System

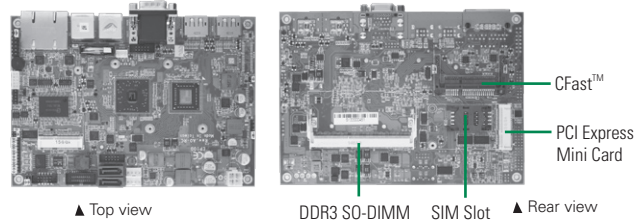
CPU	AMD G-Series APU T40R 1.0 GHz single core or T56N 1.65 GHz dual core onboard
System Memory	1 x 204-pin SO-DIMM supports DDR3-1066/1333 max. up to 4 GB
Chipset	AMD A50M FCH
BIOS	AMI
SSD	1 x CFast™
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCI Express Mini Card 1 x PCI Express Mini Card with SIM slot
Battery	Lithium 3V/220mAH
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power ON function supported
Power Requirements	AMD G-Series APU T56N @1.65 GHz, 1GB DDR3 Max. RMS: +12V @ 1.74A AMD G-Series APU T40R @ 1.0 GHz, 1GB DDR3 Max. RMS: +12V @ 1.24A
Size	165 x 115 mm
Board Thickness	1.6 mm
Operating Temperature	0° ~ +60°C (32°F ~ 140°F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

MIO	1 x RS-232/422/485 (COM 1); with +5V/+12V powered 3 x RS-232 (COM 2/3/4); with +5V/+12V powered
SATA	2 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 ports as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111E
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with Realtek ALC662
USB	6 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	8 channels IN/OUT programmable

## Features

- AMD G-Series APU T40R (1.0 GHz)/ T56N (1.65 GHz)
- AMD A50M FCH
- 1 DDR3 SO-DIMM supports up to 4 GB memory capacity
- 6 USB 2.0 ports
- 4 COM ports
- DirectX 11 supported



## Display

Chipset	AMD G-Series APU integrated graphics engine T56N - Radeon™ HD6320 T40R - Radeon™ HD6250
Memory Size	Max. up to 2 GB in 4 GB DDR3 module
Display Interface	1 x VGA + 2 x DisplayPort or 1 x VGA + 1 x DisplayPort + 1 x LVDS; 18/24-bit single/dual channel

## Packing List

### Standard

Quick installation guide, user's manual/utility CD, cable

### Cable

Part Number	Description	Qty
5938262000E	1 x COM w/ bracket P=2.0mm, L=300mm	1
59384500100E	Audio cable w/ bracket P=2,450mm	1
59382631000E	2 x USB 2.0 wafer cable w/ bracket 180mm	1

### Optional

59380000300E	2 x COM w/ bracket P=1.27 x 2.54 L=300mm
59070213000E	DisplayPort to VGA cable, L=100mm
59040131000E	DisplayPort to DVI cable, L=220mm
59050203000E	DisplayPort to HDMI cable, L=200mm
59091501000E	DisplayPort to DisplayPort cable, L=1500mm

## Ordering Information

### Standard

EP100VPGGA-T56N w/ slim I/O (P/N: E38B100100)	EPIC SBC with AMD G-Series APU T56N 1.65 GHz, A50M FCH, VGA/Dual DisplayPort, 2 10/100/1000Mbps Ethernet and audio
EP100VLGGA-T40R w/ rich I/O (fanless) (P/N: E38B100102)	EPIC SBC with AMD G-Series APU T40R 1.0GHz, A50M FCH, VGA/DisplayPort/LVDS, 2 10/100/1000Mbps Ethernet and audio

SBC Services and Solutions

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Embedded SBCs >Nano-ITX

Embedded SBCs >Pico-ITX

Embedded SBCs >PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix