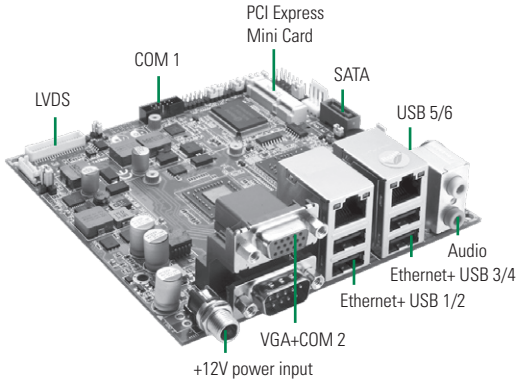
NANO101

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



Fanless | Low Power | DualView | DDR3 | CFast™ | PCIe Mini | AiRD

System

CPU	AMD G-Series APU T40R 1.0 GHz single core or T40E 1.0 GHz dual core onboard
System Memory	1 x 204-pin SO-DIMM supports DDR3-1066 max. up to 4 GB
Chipset	AMD A50M FCH
BIOS	AMI BIOS
SSD	1 x CFast™
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCI Express Mini Card V1.2
Battery	Lithium 3V/220mAH
Power Input	DC power jack connector +12V DC-in only AT Auto Power ON function supported
Power Requirement	AMD G-Series APU T40E @1.0 GHz, 1GB DDR3 Max. RMS: +12V @ 1.11A AMD G-Series APU T40R @1.0 GHz, 1GB DDR3 Max. RMS: +12V @ 1.06A
Size	120 x 120mm
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

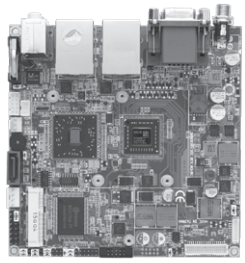
MIO	1 x RS-232/422/485 (COM 1); with +5V/+12V powered 1 x RS-232 (COM 2) ; with +5V/+12V powered
SATA	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	2 ports as 10/100/1000 Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111E
Audio	HD Codec audio as MIC-in/Line-out 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

Display

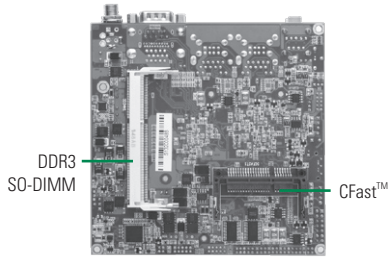
Chipset	AMD G-Series APU integrated graphic engine T40E/ T40R-Radeon™ HD6250
Memory Size	Max. up to 2 GB in 4 GB DDR3 module
Display Interface	1 x VGA 1 x LVDS; 18/24-bit single/dual channel

Features

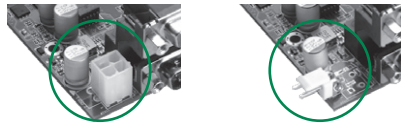
- AMD G-Series APU T40R (1.0 GHz)/ T40E (1.0 GHz)
- AMD A50M FCH
- 1 DDR3 SO-DIMM supports up to 4 GB memory capacity
- 6 USB 2.0 ports
- Supports CFast™
- DirectX 11 supported



▲ Top view



▲ Rear view



▲ Internal power connector (Optional)

Packing List

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

Cable

Part Number	Description	Qty
59382620000E	1 x COM cable w/ bracket P=2.0 mm, L=300mm	1

Optional

59382631000E	2 x USB 2.0 wafer cable w/ bracket 180mm

Ordering Information

Standard	
NANO101VGGA-T40R (P/N: E38K101100)	Nano-ITX SBC with AMD G-Series APU T40R 1.0 GHz, A50M FCH, VGA/LVDS, 2 10/100/1000Mbps Ethernet, 2 COM, 6 USB, CFast and audio
NANO101VGGA-T40E (P/N: E38K101101)	Nano-ITX SBC with AMD G-Series APU T40E 1.0 GHz, A50M FCH, VGA/LVDS, 2 10/100/1000Mbps Ethernet, 2 COM, 6 USB, CFast and audio

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

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