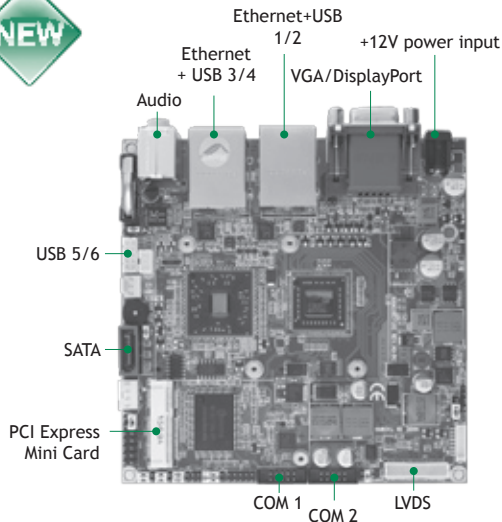


NANO101

AMD G-Series APU Nano-ITX SBC with AMD Fusion Controller Hub A50M Chipset, LVDS/VGA, Dual LANs and Audio

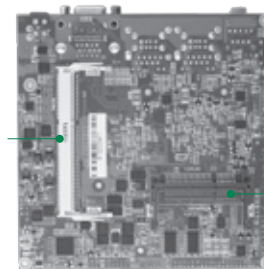


AMD G-Series APU
2 G.E.
6 USB 2.0
PCIe Mini Card
CFast™

Features



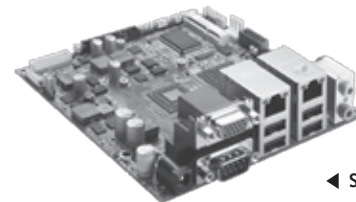
- AMD G-Series APU T40R (1.0 GHz)/ T40E (1.0 GHz)
- AMD Fusion Controller Hub A50M chipset
- 1 DDR3 SO-DIMM supports up to 4 GB memory capacity
- 6 USB 2.0 ports
- 2 COM ports
- DirectX® 11 support



DDR3
SO-DIMM

CFast™

◀ Rear view



◀ Side view

System

CPU	AMD G-Series APU T40R 1.0 GHz single core & T40E 1.0 GHz dual core onboard
System Memory	1 x 204-pin DDR3-1066 SO-DIMM max. up to 4 GB
Chipset	AMD Fusion Controller Hub A50M
BIOS	AMI BIOS
SSD	1 x CFast™
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	1 x PCI Express Mini Card
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 @ 1.63A AMD G-Series APU T40R @1.0 GHz, 1GB DDR3 Max. RMS: +12V @ 1.52A
Size	120 x 120mm
Board Thickness	1.6 mm
Temperature	0°C - +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 supports 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

SBC Services
and Solutions

System on
Modules

Embedded
SBCs
> EPIC

Embedded
SBCs
> 3.5" Capa

Embedded
SBCs
> Nano-ITX

Embedded
SBCs
> Pico-ITX

Embedded
SBCs
> PC/104

Industrial
Motherboards

Slot CPU
Cards

Accessories

Appendix

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	Nano-ITX SBC with AMD G-Series APU T40R 1.0 GHz, A50M chipset, VGA/LVDS, 2 10/100/1000Mbps and audio
NANO101VGGA-T40E	Nano-ITX SBC with AMD G-Series APU T40E 1.0 GHz, A50M chipset, VGA/LVDS, 2 10/100/1000Mbps and audio