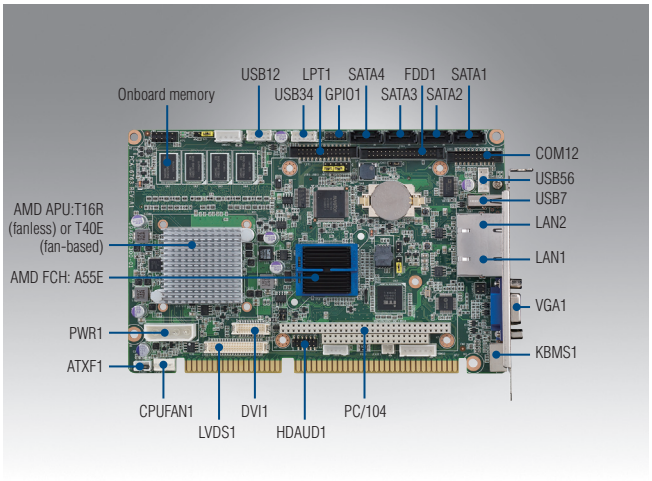
PCA-6763

AMD T40E/T16R ISA Half-size SBC with Dual Independent Display/Dual GbE/ SATA/USB/m-SATA/COM/LPT



Features

- Ultra low power, AMD dual-core Accelerated Processing Unit T40E or fanless T16R
- DDR3 1066 memory onboard 1GB+ DDR3 1066 SO-DIMM socket 4GB
- Dual independent display
- Up to 2 GbE LAN supported
- Up to 7 USB 2.0 (480 Mbps)
- 4 SATA 3.0 (600 MB/s) and 1 m-SATA (600 MB/s)
- legacy I/O, such as FDD/ PC/104/ COM/ LPT supported
- Optional module for 4 RS-422/485 or 4 RS-232, TPM and HD audio

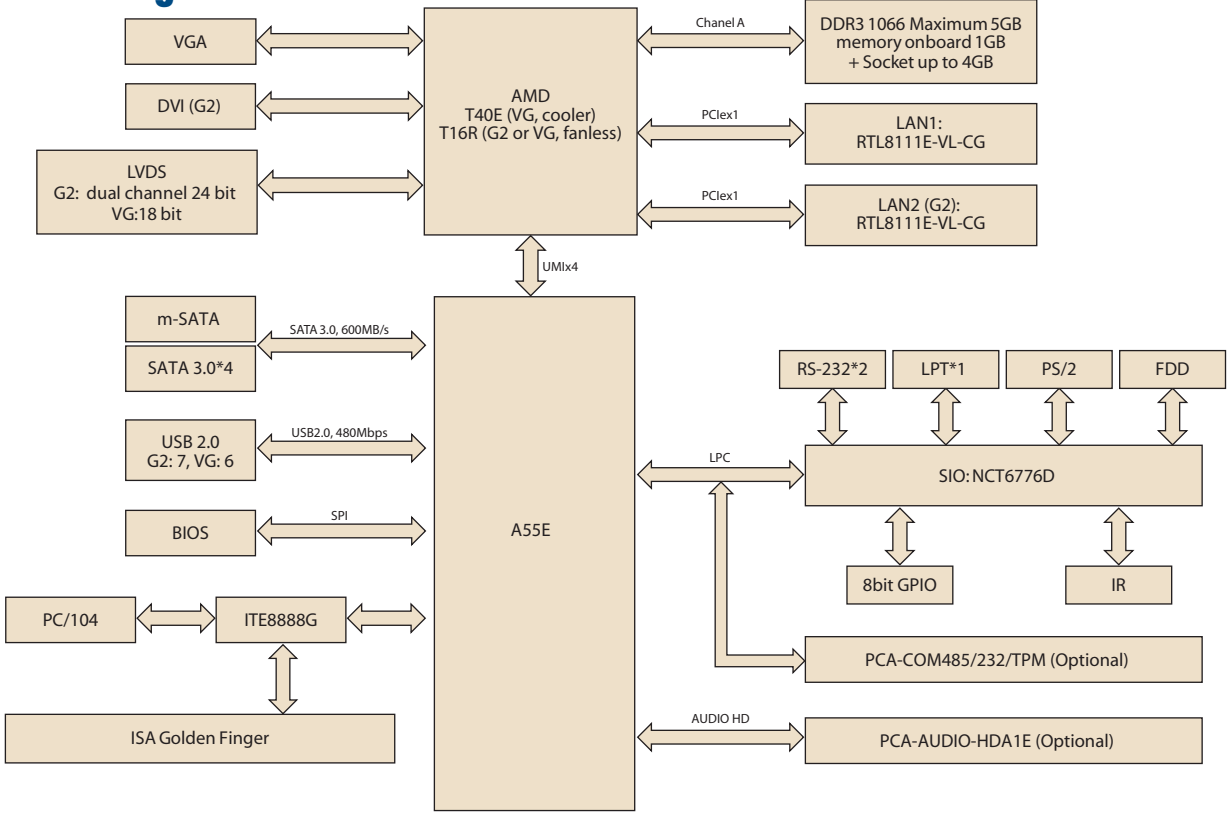
CE FCC

Specifications

Processor System	CPU	AMD G-Series APU T16R			AMD G-Series APU T40E		
	Max. Speed	615 MHz			1 GHz		
	L2 Cache	512 KB					
	Chipset	AMD Fusion controller hub A55E					
	BIOS	AMI-EFI 32 Mbit SPI					
Bus	ISA	Full 16-bit ISA Bus signal					
Memory	Technology	DDR3 1066 1GB onboard+ DDR3 1066 up to 4GB on 1 x 204-pin SODIMM socket					
Graphics	Controller	AMD G-Series T16R or T40E (Integrated wtih AMD GPU Radeon HD 6250)					
	VRAM	Optimized shared memory Architecture up to 384 MB system memory					
	Dual Display	G2: Choosing two interface from VGA (Default), LVDS, and DVI VG: VGA (Default)+LVDS					
	VGA	Up to 1920 x 1200 @ 60Hz					
	LVDS	G2: 48 bit (Dual channel 24 bit) LVDS up to 1920 x 1200 @ 60Hz VG: 18 bit LVDS up to 1024 x 768 @ 60Hz					
	DVI	Up to 1920 x 1200 @ 60Hz					
Ethernet	Interface	10/100/1000 Mbps					
	Controller	LAN1: Realtek RTL8111E-VL-CG LAN2: Realtek RTL8111E-VL-CG					
	Connector	RJ-45 x 2					
I/O Interface	USB	G2: USB2.0 x 7 (1 on bracket, 6 onboard) VG: USB2.0 x 6 (6 onbaord)					
	SATA	SATA 3.0 x 4					
	m-SATA	1					
	AUDIO	HD AUDIO interface*1 for PCA-AUDIO-HDA1E (Optional)					
	Serial	RS-232 x 2 onboard Optional: RS-422/485 x 4 (PCA-COM485-00A1E) or RS-232 x 4 (PCA-COM232-00A1E) on module					
	Parallel	1 (EPP/ECP/SPP)					
	FDD	1					
	GPIO	8 bit					
	PS/2	1 (6-pin DIN socket on bracket for PS/2 keyboard and mouse, 6-pin wafer box connector)					
Watchdog Timer	Output	System reset/IRQ11					
	Interval	Programmable, 1~255 sec/min					
Power Requirement	Test Environment	AMD G-series T40E (1GHz), DDR3 1066 5GB (1GB onboard and 4 GB with DIMM)					
	Voltage	+12V	+5V	+3.3V	+5VSB	-12V	-5V
	Current	0.39A	1.93A	0A	0A	0A	0A
Environment		Operating			Non-Operating		
	Temperature	0 ~ 60° C (32 ~ 140° F) (operating humidity: 40° C @ 85% RH Non-Condensing)			-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing		
Physical	Dimensions	185 mm (L) x 122 mm (W) (7.3" x 4.8")					

All product specifications are subject to change without notice

Block Diagram



Ordering Information

P/N	APU	GbE LAN	Memory	VGA	DVI	LVDS	USB	SATA	COM	LPT	PC104	FDD	mSATA
PCA-6763G2-00A1E	T16R	2	onboard 1GB+ Socket up to 4GB	1	1	48 bit	7	4	2 RS-232	1	1	1	1
PCA-6763VG-00A1E	T16R	1	onboard 1GB+ Socket up to 4GB	1	-	18 bit	6	4	2 RS-232	1	1	1	1
PCA-6763VG-S0A1E	T40E	1	onboard 1GB+ Socket up to 4GB	1	-	18 bit	6	4	2 RS-232	1	1	1	1

Packing List

Part Number	Description	Quantity
1700008762	Dual-COM port cable kit (for G2 SKU)	x 1
1700014398-11	4-port USB cable kit (2.0 mm pitch)	x 1
1700060202	Y cable for PS/2 keyboard, PS/2 mouse	x 1
1700003194	SATA HDD data cable	x 1
1700022749-11	SATA HDD power cable	x 1
1700002343	ATX feature cable	x1
1700002223	LPT port cable kit (for G2 SKU)	x1
1700008954	LPT+COM cable kit (for VG SKU)	x1
1960046526N001	CPU cooler for AMD T40E APU (only available for PCA-6763VG-S0A1E)	x 1

Optional Accessories

Part Number	Description
PCA-COM485-00A1E	4 x RS-422/485 COM module
PCA-COM232-00A1E	4 x RS-232 COM module
PCA-AUDIO-HDA1E	Extension module for 7.1 channel High Definition audio
PCA-TPM-00A1E	Trusted platform module compliant with TCG 1.2
1700008822	DVI cable
1701340603	FDD cable

I/O View



PCA-6763VG-00A1E
PCA-6763VG-S0A1E



PCA-6763G2-00A1E