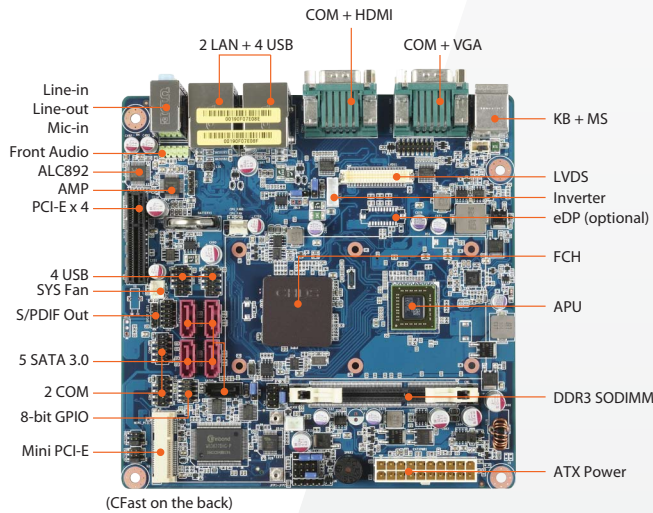


AA55E-IF

AMD G-Series™ APU with A55E Controller Hub (FCH) Mini-ITX Motherboard



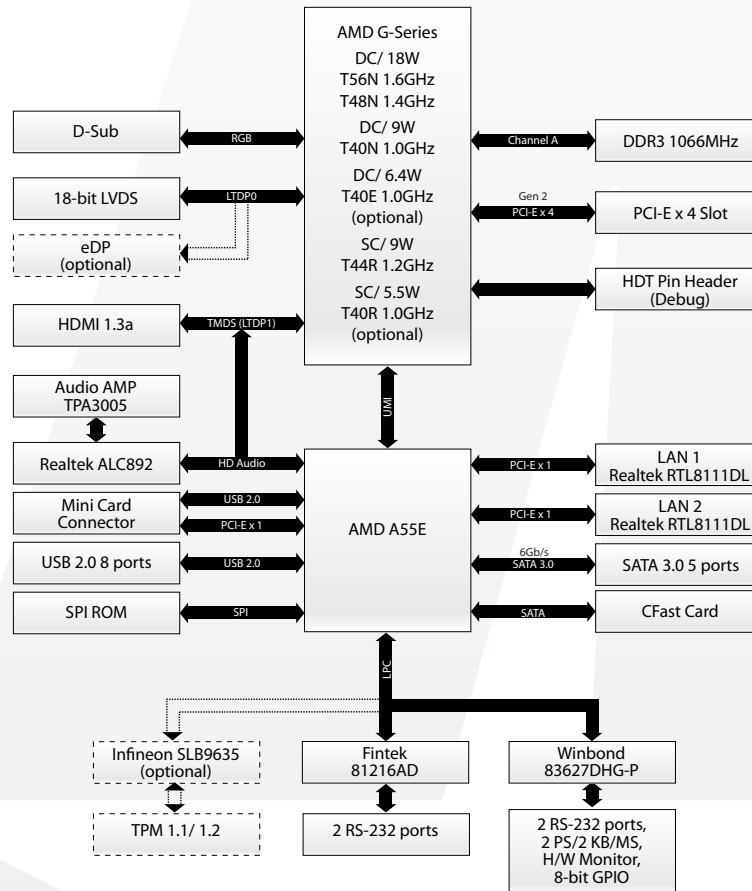
Features

- The latest AMD G-Series APU supports 40nm process technology
- Supports AMD Controller Hub A55E
- AMD Radeon™ HD 6320/ HD 6310/ HD 6290/ HD 6250 Graphics Engine supports HDMI 1.3a, DirectX 11, OpenGL 4.0, dedicated hardware (UVD 3.0) for H.264, VC-1, MPEG-2, DivX decode
- One DDR3 1066 SODIMM, up to 4GB
- Multiple display I/O supports versatile Dual Display functions : HDMI, VGA, 18-bit single channel LVDS, eDP (optional)
- Realtek ALC892, 7.1 Channel with Multiple Streaming HD Audio
- Dual Realtek RTL8111DL Gigabit LAN
- 1 PCI-E x 4 Gen.2, 1 Mini PCI-E , 1 CFast
- 5 SATA 3.0 (6Gb/s)
- 4 COM (2 Powered COM), 8 USB 2.0
- 8-bit GPIO Pin Header

Specifications

System	
APU	AMD G-Series T56N 1.6GHz DC/ T48N 1.4GHz DC/ T40N 1.0GHz DC/ T40E 1.0GHz DC (optional)/ T44R 1.2GHz SC/ T40R 1.0GHz SC (optional)
BIOS	AMI EFI 16Mb SPI
FCH	AMD A55E Controller Hub
I/O Chip	Winbond W83627DHG-P
Memory Type	One 204-pin SODIMM Socket supports up to 4GB DDR3 1066MHz
Watchdog Timer	Reset : 1 to 255 sec/min per step
H/W Status Monitor	Monitoring temperature, voltage and cooling fan status. Auto throttling control when CPU overheats.
Expansion	1 PCI-E x 4 Gen.2, 1 Mini PCI-E, 1 CFast
TPM	Onboard TPM 1.1/ 1.2 by Infineon SLB9635 (optional)
Power State	S3, S4, S5
Wake up on LAN or Ring	LAN
SmartFan Control	Yes
I/O	
MIO	4 COM RS-232, 5 SATA 3.0, 2 LAN, 1 HDMI, 1 VGA, 1 LVDS, 1 eDP (optional), 1 Inverter, 1 PS/2 Keyboard, 1 PS/2 Mouse
USB	8 USB 2.0 (4 Rear, 4 Internal)
GPIO	8-bit General Purpose I/O
Display	
Chipset	AMD Radeon HD 6320 (T56N)/ AMD Radeon HD 6310 (T48N)/ AMD Radeon HD 6290 (T40N)/ AMD Radeon HD 6250 (T40E/ T44R/ T40R)
Display Memory	Shared Memory, up to 2GB
Dual Display	VGA + LVDS, VGA + HDMI, LVDS + HDMI
VGA	Onboard - T56N/ T48N (18W) supports up to 2560 x 1600 - T40N/ T44R (9W) supports up to 1920 x 1200
HDMI	Onboard, supports HDMI 1.3a & 1080p up to 1920 x 1080
LVDS	Onboard, 18-bit single channel LVDS supports up to 1400 x 1050
LVDS Backlight	Yes, PWM Control (Backlight adjusted from AMD A55E Controller Hub)
eDP	Optional - T56N/ T48N (18W) supports up to 2560 x 1600 - T40N/ T44R (9W) supports up to 1920 x 1200
Audio	
Audio Codec	Realtek ALC892, 7.1 Channel HD Audio
Audio Interface	Line-in, Line-out, Mic-in, S/PDIF, Front Audio Header
Audio Amplifier (W)	3W + 3W, TPA3005D2 Stereo
Ethernet	
LAN 1	Realtek RTL8111DL Gigabit LAN
LAN 2	Realtek RTL8111DL Gigabit LAN

Block Diagram



AA55E-IF

Back Panel I/O Port

- 1 PS/2 Keyboard
- 1 PS/2 Mouse
- 1 VGA Port
- 1 HDMI Port
- 2 COM RS-232 Ports
- 4 USB 2.0 Ports
- 2 LAN RJ45 Ports
- Audio I/O (3 Jacks)

Internal I/O Connector

- 1 HDT Header
- 1 SPI Connector
- 4 USB Connectors
- 2 COM Port Headers
- 5 SATA Connectors
- 1 CFast Connector
- 1 Front Audio Header
- 1 CPU Fan Connector
- 1 System Fan Connector
- 1 Digital I/O Connector
- 1 LVDS Connector
- 1 eDP Connector (optional)
- 1 VGA Header
- 1 LVDS Backlight Header

Mechanical & Environmental

Power Requirement	+3.3V 0.47A	+5V 1.66A	+12V 1.07A	-12V 0.05A	5VSB 0.16A
Power Type	ATX (supports at AT Mode)				
Power Connector	20-pin ATX Power Connector				
Operating Temperature	0°C to 60°C (32°F to 140°F)				
Operating Humidity	0% to 90% relative humidity, non-condensing				
Size (L x W)	6.69" x 6.69" (170 x 170 mm)				
Weight	0.96 lbs (0.436 Kg)				

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