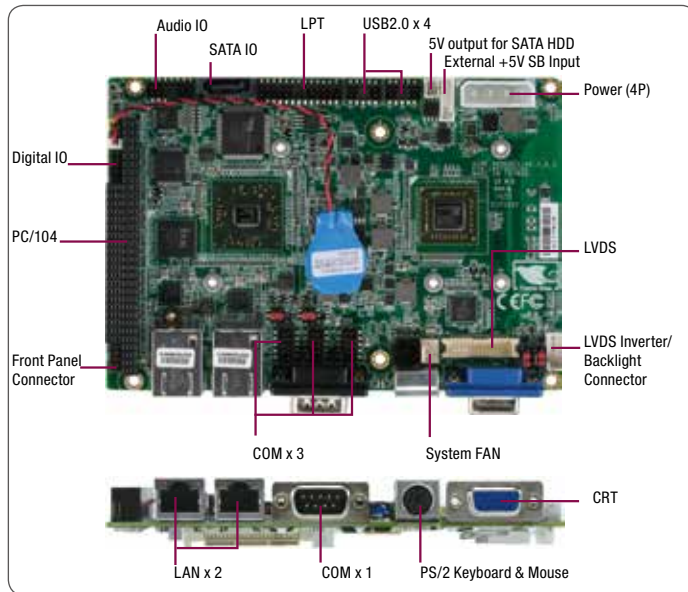


# GENE-A55E

3.5" SubCompact Board with AMD G-series T16R Processor



## Features

- AMD G-series T16R Single Core 615 MHz Processor
- AMD A55E
- DDR3L SODIMM 1066 MHz Memory, Max. 4 GB
- Gigabit Ethernet x 2
- VGA, 18/24-bit Dual Channel LVDS LCD
- 2CH HD Audio
- SATA 3.0 Gb/s x 1 & CompactFlash™ x 1
- PC/104 Interface Support
- Support 8-bit Digital I/O, USB2.0 x 4, COM x 4, LPT x 1
- Mini-Card Slot x 1
- +5V Input, AT/ATX

## Specifications

System	
Form Factor	3.5"
Processor	AMD G-series T16R Single core 615 MHz
System Memory	204-pin DDR3L 1066 MHz SODIMM x 1, Max. 4 GB
Chipset	AMD A55E
I/O Chipset	Fintek 81866D-I
Ethernet	Realtek RTL8111E 10/100/1000Base-TX, RJ-45 x 2
BIOS	AMI BIOS
Wake On LAN	Yes
Watchdog Timer	Fintek 81866D-I
H/W Status Monitoring	Supports power supply voltage and temperature monitoring
Expansion Interface	Mini-Card slots or mSATA(Optional) x 1, LPC Bus x 1
Power Requirement	+5V, AT/ATX
Power Consumption (Typical)	AMD T16R, with DDR3L 1066MHz 4 GB, 2.2A @+5V
Board Size	5.75" (L) x 4"(W) (146mm x 101.6mm)
Gross Weight	0.88 lb (0.4 kg)
Operation Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operation Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	147,000
Display	
	Supports CRT/LCD, HDMI/LCD simultaneous/ dual view displays
Chipset	AMD® G-series T16R processor integrated Graphics Engine
Memory	Shared memory: 512 MB/ DVMT 5.0
Resolution	VGA up 1920 x 1200 LCD up to 1920 x 1200 (By Chrontel CH7511)
LCD Interface	18/24-bit dual-channel LVDS LCD
I/O	
Storage	SATA 3.0 Gb/s x 1
Serial Port	RS-232 x 2, RS-232/422/485 (auto flow) x 2
Parallel Port	SPP/ECP/EPP mode x 1
USB	USB2.0 x 4
PS/2 Port	Keyboard x 1, Mouse x 1
IrDA	—
Audio	MIC-in/ Line-in/ Line-out
GPIO	4 in and 4 out



## Packing List

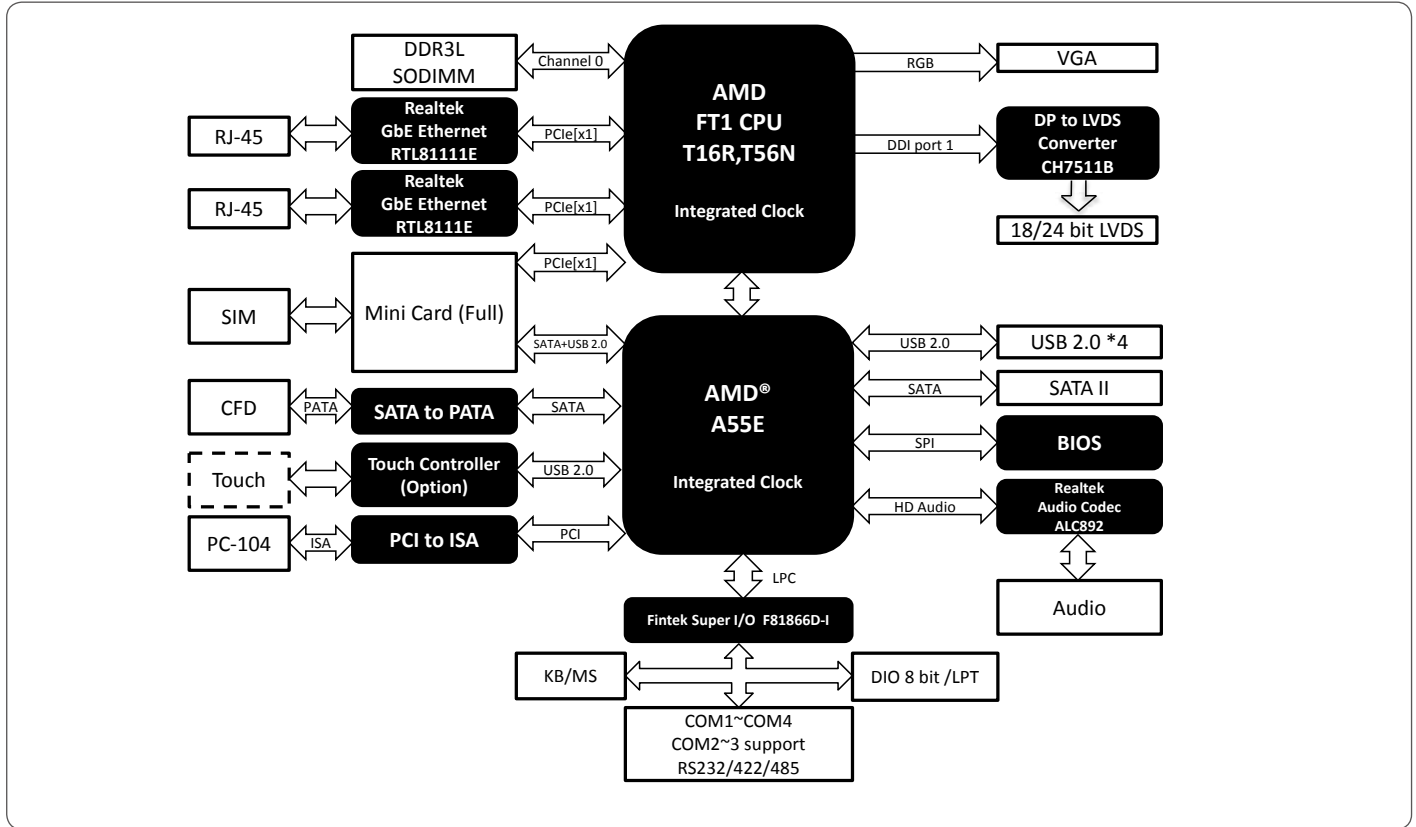
- Product DVD
- GENE-A55E

## Optional Accessories

Part Number	Description	QTY
1702200205	(TF)Power Cable, 20P ATX(M), 4P 5.08mm Housing(F), +6P 2.0mm Housing, 20cm	1
170204010A	(TF)Power Cable, 4P Housing(F), Dual 4P Housing(M), 10cm, For GENE-9455	1
1701260200	(TF)Flat Cable, 25P D-SUB FEMALE.26P 2.00mm Pitch Housing, 20cm	1
1701100206	(TF)Flat Cable, 9P DB 9P MALE, 10P 2.00mm Pitch Housing, 20cm	3
1700140510	(TF)Cable, 4P/2.54 Housing RCA Jack x 3, 14P/2.0 Housing, 51cm, for Audio I/O	1
1709100201	(TF)USB Cable, 20cm, 2.0mm, W/Bracket	2
1702150155	(TF)Power Cable, 15P SATA(F), 2P 2.0mm Housing(PH), 15cm	1
1700060192	(TF)Cable, 6P-6P-6P, 19cm, IVORY PS2/KB & Mouse	1
175011901C	(TF)Battery, 3V, Maxell, CR2032M1S8-LF	1
1709070500	(TF)SATA CABLE.7P Pitch 1.27mm.50cm	1

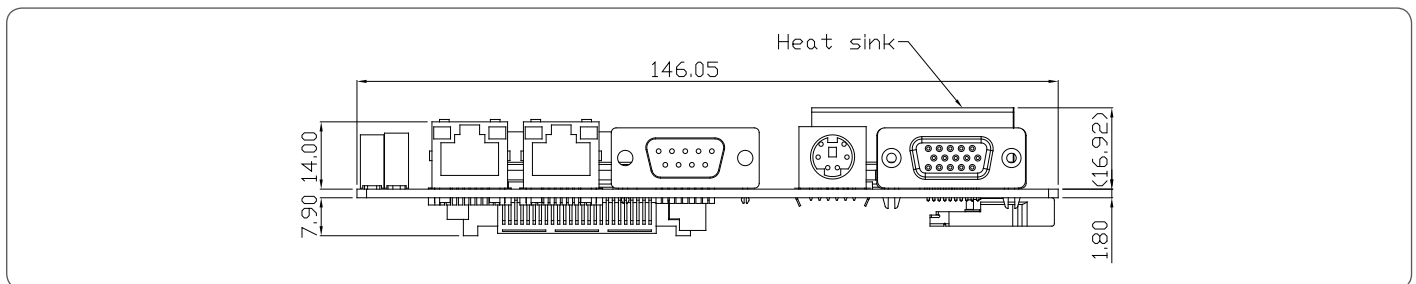
# GENE-A55E

## Block Diagram



## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	Fan/Fanless	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Power Temp	Others
GENE-A55E-A10-0001	AMD G-T16R	Fanless	VGA/LVDS	24b, 2CH	SATA x 1, CompactFlash™ x 1	GbE x 2	UBS2.0 x 4	2	2	Mini-Card co-layout with mSATA, PC/104 x 1, LPC connector	+5V, AT/ATX	0°C ~ 60°C	DIO x 8