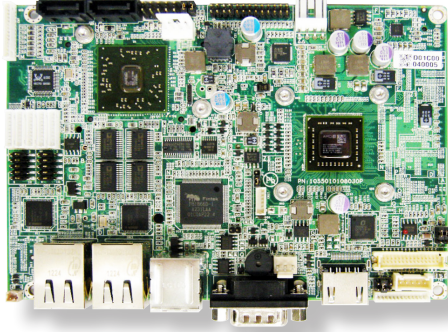


# EmCORE-a55E1

## AMD G-series APU G-T56N / G-T40N 3.5" Compact Board



### Features

- Soldered onboard AMD G-Series APU Processor
- Dual Gigabit Ethernet Ports
- HDMI, Analog RGB and Dual Channels 24-bit LVDS
- Dual Independent Displays
- Integrated SIM Socket for mobile telecommunication

### System

Processor	Soldered onboard AMD G-series Processor G-T56N 1.65GHz/ G-T40N 1.0GHz
Chipset	AMD FCH A55E
Memory	1 x DDR3 SO-DIMM socket, supporting up to 4GB 800/1066/1333MHz SDRAM
BIOS	AMI BIOS
Watchdog Timer	1~255 levels reset

### I/O

Super IO Chipset	Fintek F81866
Serial Port	5 x RS-232 1 x RS-232/422/485 selectable
Parallel port	SPP/EPP/ECP mode selectable, shared with DIO
Keyboard & Mouse	6-pin wafer connector for PS/2 keyboard/ mouse via Y-cable
USB 2.0	6 x USB 2.0 ports
Expansion	1 x Mini-Card Socket 1 x SIM socket
Storage	2 x Serial ATA ports with 600MB/s HDD transfer rate 1 x CFast socket
Ethernet Chipset	2 x Intel® 82583V PCIe GbE controllers
Digital I/O	8-bit Programmable
Audio Interface	Realtek® ALC662 5.1 Channel HD Audio CODEC, Mic-in/ Line-in/ Line-out

### Display

Graphic Chipset	Integrated Radeon™ HD 6320 for G-T56N, 6252 for G-T40N
Graphic Interface	Analog RGB with resolution up to 2560x1600 LVDS: Dual Channels 24-bit LVDS, with resolutnio up to 1920x1600 HDMI: 1 x HDMI 1.3a supported

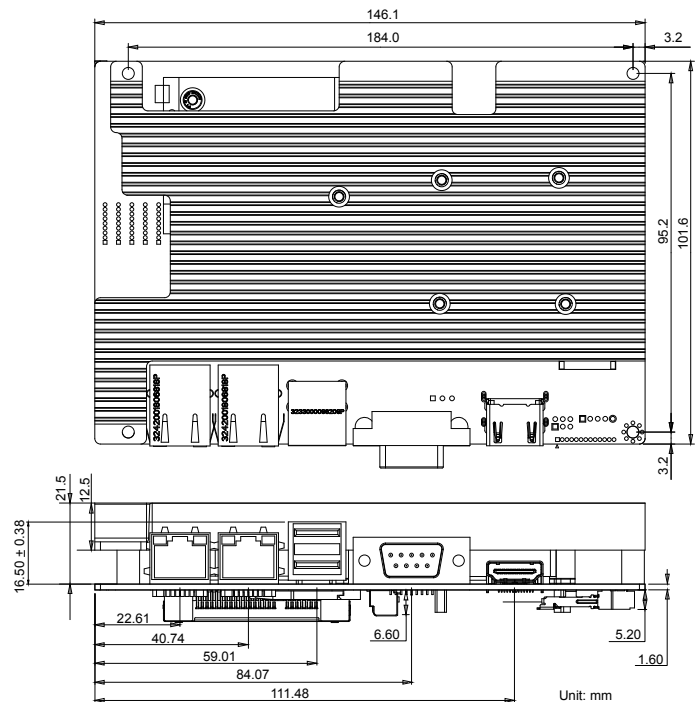
### OS Support

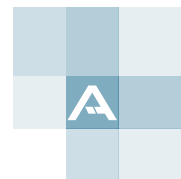
Windows XP 32/64-bit
Windows 8

### Mechanical & Environmental

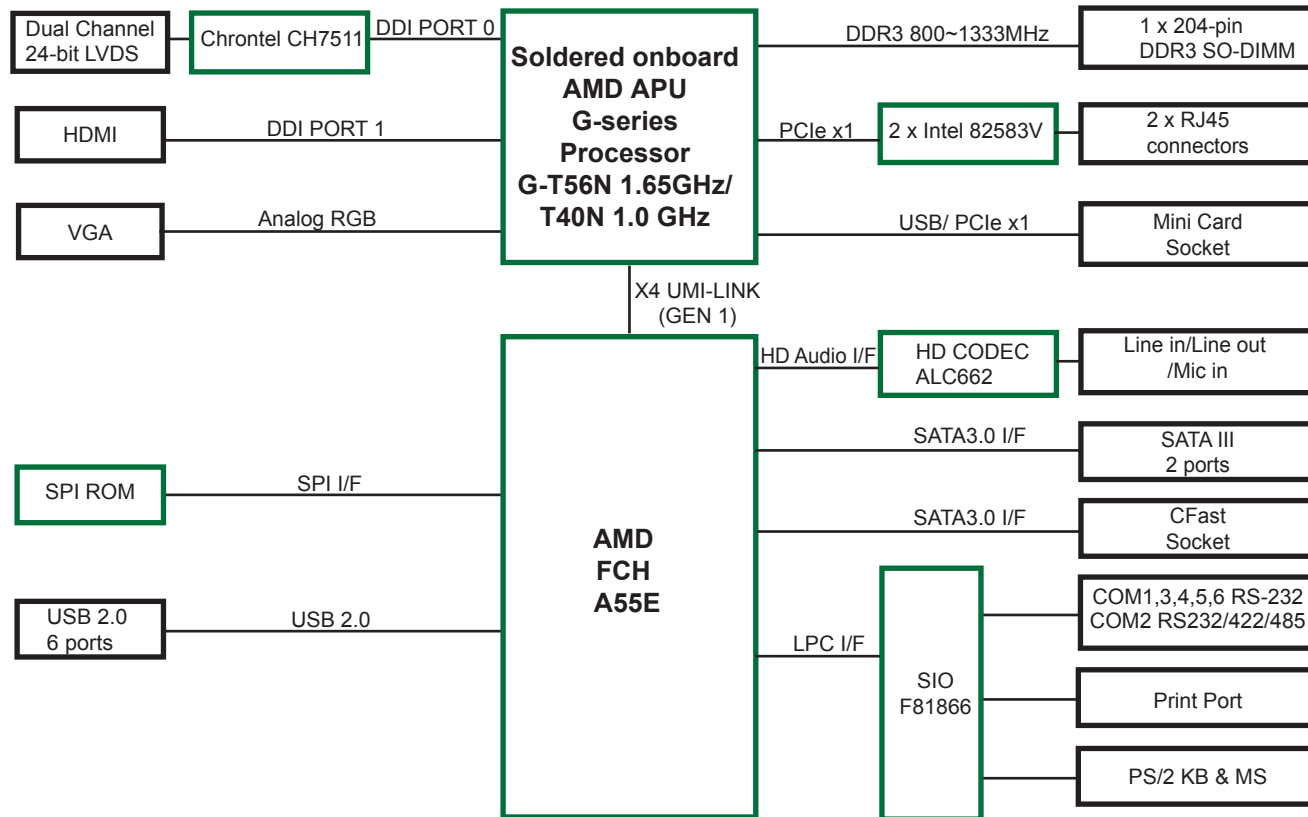
Power Input	DC 12V
Power Consumption	1.75A@+12V with G-T56N (Typical) 1.2A@+12V with G-T40N (Typical)
Operating Temp.	0 ~ 70°C (32 ~ 158°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimension (L x W)	146 x 102 mm (5.7" x 4.0")

### Dimensions





## Block Diagram



## Ordering Information

EmCORE-a55E1-T56N (OEM request) AMD G-T56N/ A55E 3.5" compact board

EmCORE-a55E1-T40N AMD G-T40N/ A55E 3.5" compact board

## Optional Accessories

CBK-14-55E1-00	<ul style="list-style-type: none"> <li>Cable kit</li> <li>5 x Serial port cables</li> <li>2 x USB cables</li> <li>2 x SATA cables</li> <li>1 x SATA power cable</li> <li>1 x LPT cable</li> <li>1 x Audio cable</li> <li>1 x KB/MS cable</li> <li>1 x VGA cable</li> </ul>
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