

EmCORE-a55E1

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



Features

- Soldered Onboard AMD Fusion G-Series Processor
- Dual Gigabit Ethernet Ports
- HDMI, Analog RGB and Dual Channels 24-bit LVDS
- Dual Independent Displays
- Integrate SIM Socket to Support Mobile Telecommunication

System

CPU	Soldered onboard AMD G-series G-T56N 1.65GHz, or G-T40N 1.0GHz processor
Memory	1 x 204-pin DDR3 SO-DIMM socket, supporting 800/1066/1333MHz SDRAM up to 4GB
Chipset	AMD FCH A55E
BIOS	AMI UEFI BIOS
Watchdog Timer	1~255 levels reset

I/O

I/O Chip	Fintek F81866
Serial Port	6 x COM ports (5 x RS-232, 1 x RS-232/422/485 selectable)
USB Port	6 x USB 2.0 ports
KB/MS	1 x 6-pin wafer connector for keyboard and mouse (PS/2 interface via Y-cable)
Digital I/O	8-bit programmable Digital Input/Output, shared with LPT port connector
Expansion Bus	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
Audio Interface	Realtek ALC662 5.1 Channel HD Audio Codec, Mic-in/ Line-in/ Line-out

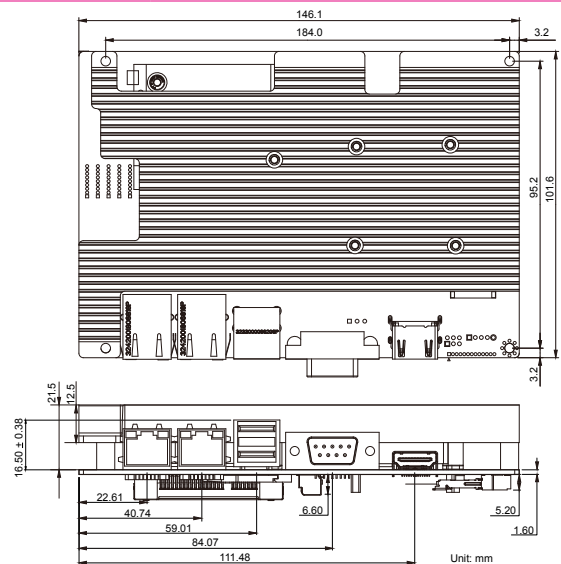
Display

Graphics Chipset	Integrated AMD Radeon HD 6320 w/ G-T56N, HD 6250 w/ G-T40N
Graphics Interface	Analog RGB supports resolution up to 2560 x 1600 @60Hz LCD: Dual Channels support 18/24-bit LVDS, resolution up to 1920 x 1600 Support HDMI 1.3a

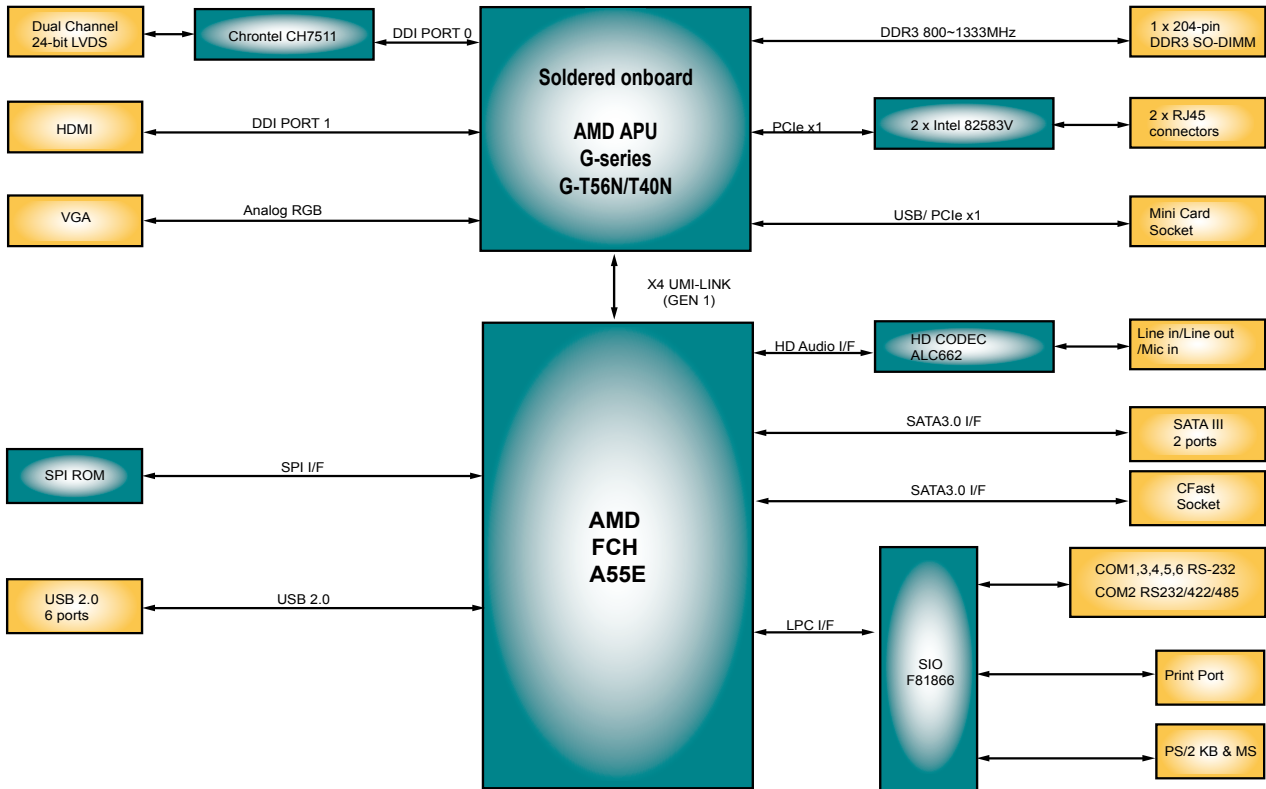
Mechanical & Environmental

Power Connector	12V DC only with Aux. ATX power connector
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)
Dimensions (L x W)	146 x 102 mm (5.75" x 4.00")

Dimensions



Block Diagram



Ordering Information

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EmCORE-a55E1-T40N AMD G-T40N 3.5" Compact Board

Optional Accessories

- CBK-14-55E1-00**
- Cable kit
- 5 x COM port cables
 - 2 x USB cables
 - 2 x SATA cables
 - 1 x SATA Power cable
 - 1 x LPT cable
 - 1 x audio cable
 - 1 x KB/MS cable
 - 1 x VGA cable