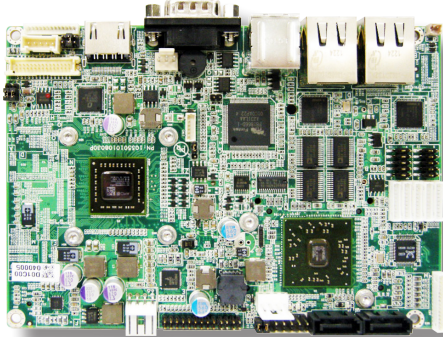


EmCORE-a55E1

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

CPU	Soldered onboard AMD G-series APU G-T56N dual-core 1.65GHz or G-T40N dual-core 1.0GHz
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	Realtek ALC662 5.1 Channel HD Audio Codec, Mic-in/ Line-in/ Line-out

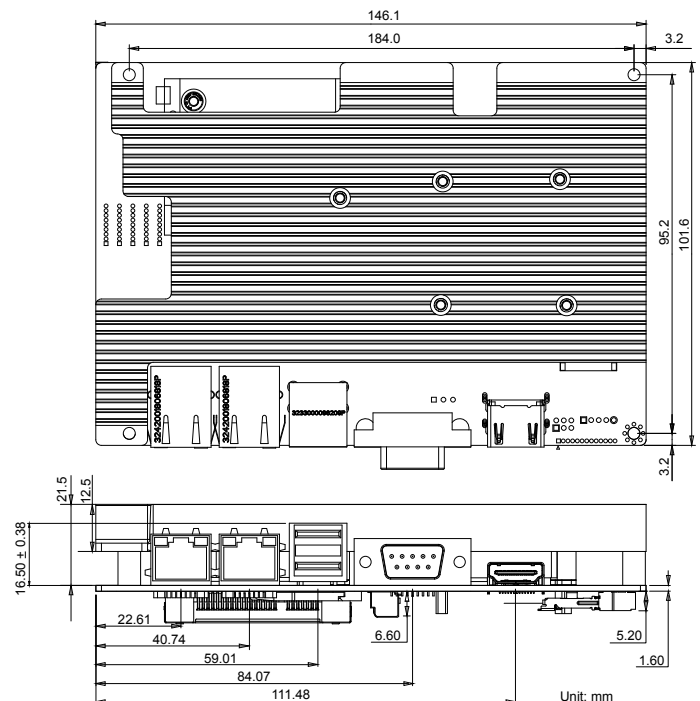
Display

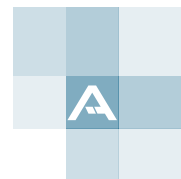
Graphic Chipset	Integrated AMD Radeon HD 6320 w/ G-T56N, HD 6250 w/ G-T40N
Graphic Interface	Analog RGB that supports resolution up to 2560 x 1600 @60Hz LCD: Dual Channels that support 18/24-bit LVDS, resolution up to 1920 x 1600 HDMI 1.3a supported

Mechanical & Environmental

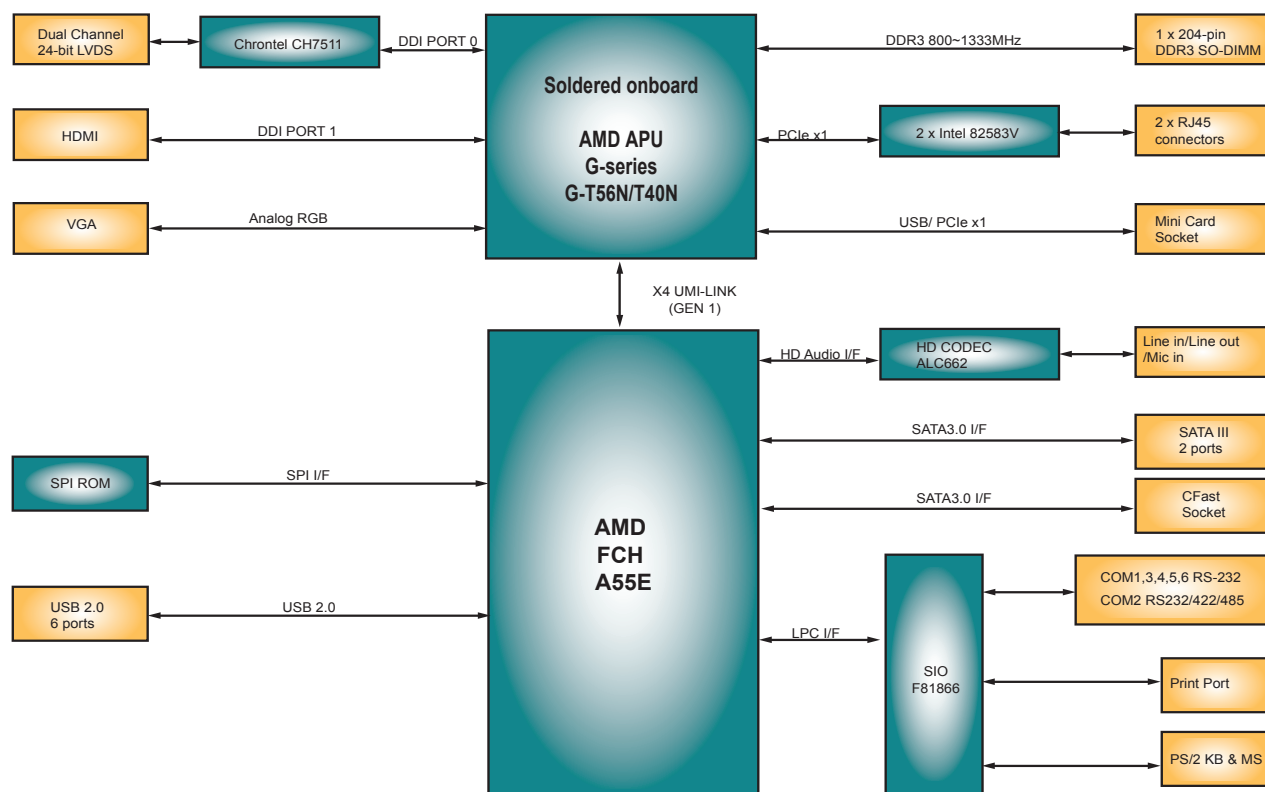
Power Connector	12V DC only with Aux. ATX power connector
Power Consumption	1.75A@+12V with G-T56N (Typical) 1.2A@+12V with G-T40N (Typical)
Operating Temp.	0 ~ 70°C (32 ~158°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimensions (L x W)	146 x 102 mm (5.75" x 4.00")

Dimensions





Block Diagram



Ordering Information

EmCORE-a55E1-T56N (BTO) AMD G-T56N 3.5" Compact Board

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
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