

# EmETX-a55E0

# ETX

## AMD Fusion G-T56N, G-T40N ETX CPU Module



### Features

- Soldered Onboard AMD Fusion G-T56N/ G-T40N Processor
- Support LVDS, Analog RGB and DDI Port
- SATA RAID Supported
- **Extended Operating Temp.: -20 ~ 70°C**

### System

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

### I/O

|                         |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------|
| <b>Super IO Chipset</b> | Fintek F71869ED                                                                     |
| <b>Serial Port</b>      | 2 x COM ports                                                                       |
| <b>Parallel Port</b>    | SPP/EPP/ECP mode selectable                                                         |
| <b>USB Port</b>         | 4 x USB 2.0 ports                                                                   |
| <b>KB/MS</b>            | PS/2 interface for keyboard and mouse                                               |
| <b>Expansion Bus</b>    | PCI (4 x PCI masters) and ISA bus<br>LPC (Low Pin Count) connector<br>SPI interface |
| <b>Storage</b>          | 2 x Serial ATA ports with 600MB/s HDD transfer rate                                 |
| <b>Ethernet Chipset</b> | 1 x Realtek 8105E PCIe 10/100Base-T Ethernet controller                             |
| <b>Audio Interface</b>  | Realtek ALC886 7.1 Channel HD Audio CODEC, Mic-in/ Line-in/Line-out                 |

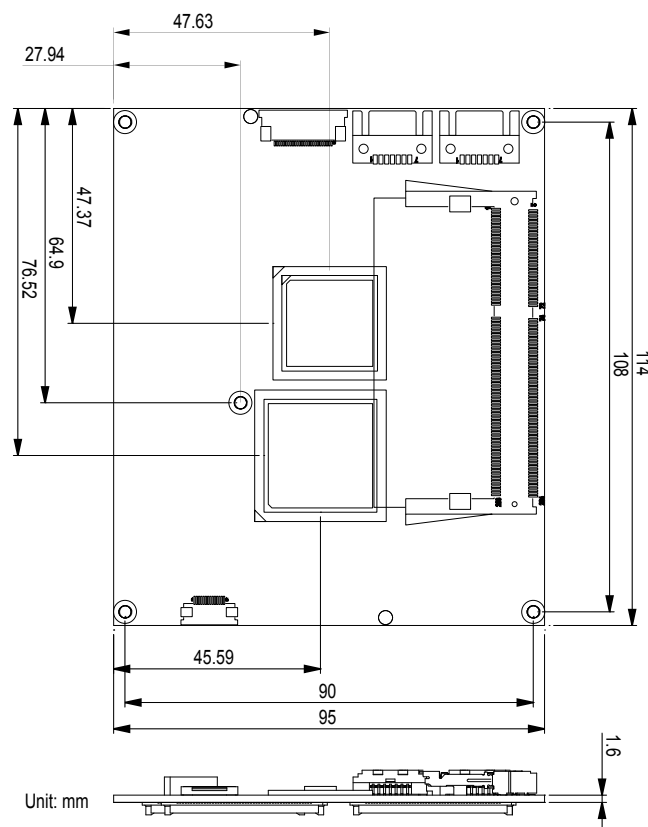
### Display

|                           |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| <b>Graphics Chipset</b>   | Integrated in AMD G-series processor                                                             |
| <b>Graphics Interface</b> | Analog RGB supports resolution up to 2560x1600<br>LCD: Dual Channels 24-bit LVDS<br>1 x DDI port |

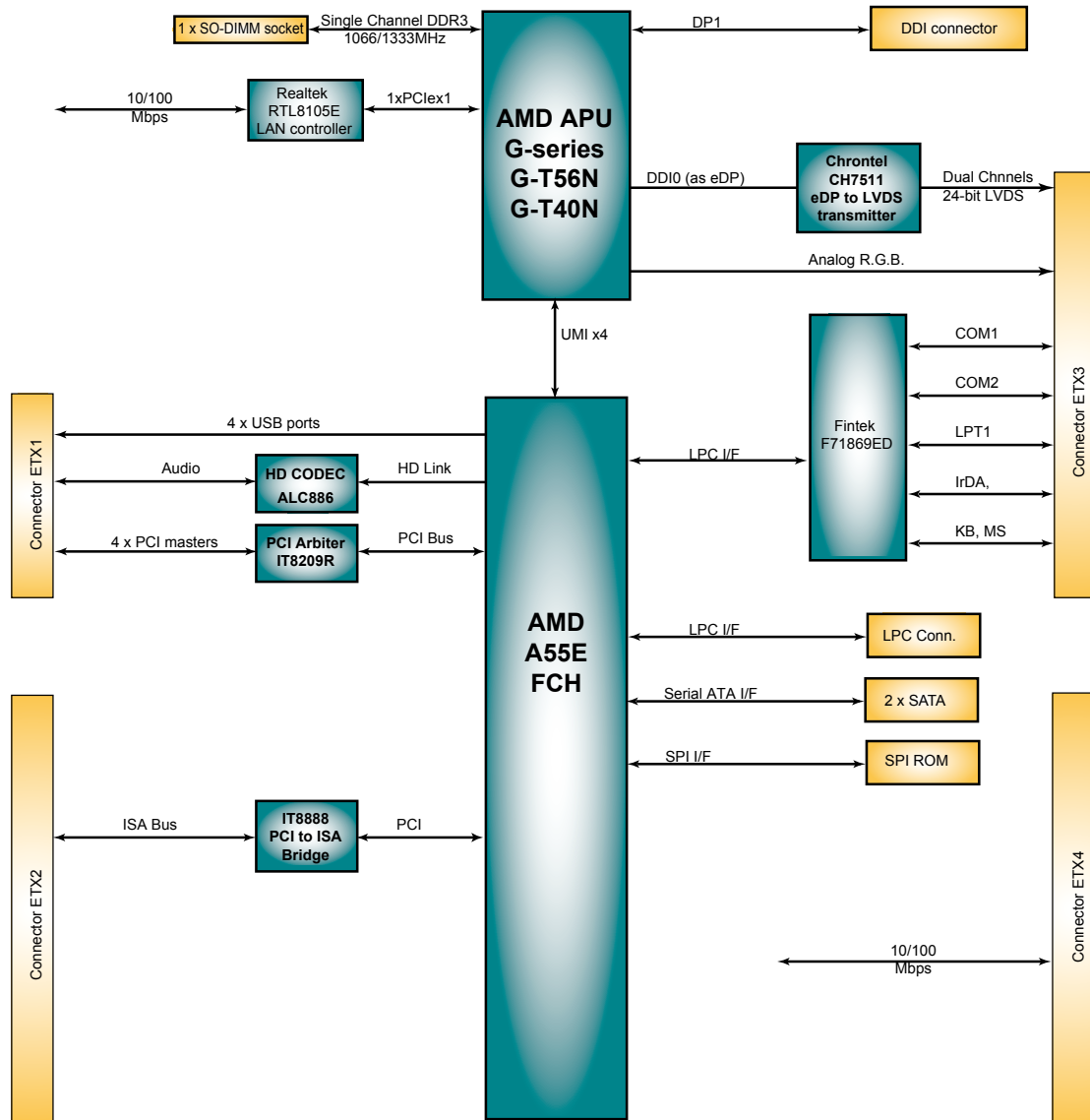
### Mechanical & Environmental

|                           |                                  |
|---------------------------|----------------------------------|
| <b>Power Requirement</b>  | +5V, 5VSB                        |
| <b>Power Consumption</b>  | 3.23A@+5V (Typical) w/ G-T56N    |
| <b>Operating Temp.</b>    | -20 ~ 70°C (-4 ~ 158°F)          |
| <b>Operating Humidity</b> | 10 ~ 95% @ 70°C (non-condensing) |
| <b>Dimension (L x W)</b>  | 114 x 95 mm (4.5" x 3.7")        |

### Dimensions



## Block Diagram



## Ordering Information

|                         |                                     |
|-------------------------|-------------------------------------|
| <b>EmETX-a55E0-T56N</b> | AMD G-T56N Dual Core ETX CPU module |
| <b>EmETX-a55E0-T40N</b> | AMD G-T40N Dual Core ETX CPU module |

## Optional Accessories

|                       |                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>HS-55E0-F2</b>     | Heat spreader (114x95x8mm)                                                                                                           |
| <b>HS-0000-W4</b>     | Universal evaluation heatsink kit w/ thermal pad (dimension: 125x95x22mm, only used on a flat type heatspreader)                     |
| <b>PBE-1000 R2.1</b>  | ETX® evaluation board in ATX form factor                                                                                             |
| <b>CBK-05-1000-00</b> | Cable kit <ul style="list-style-type: none"> <li>• 3 x COM port cables</li> <li>• 1 x USB cable</li> <li>• 2 x IDE cables</li> </ul> |
| <b>CPF-0000-C1</b>    | FAN, 4500RPM, 60x60x20mm                                                                                                             |

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