EmETX-a58M1

AMD G-series Processor G-Series ETX CPU Module

Features
- Soldered onboard AMD G-series Processor GX-212JC/218GL
- Dual Channels 24-bit LVDS, Analog RGB and DDI Port
- Extended Operating Temp.: 0 ~ 60°C

System
- CPU: Soldered onboard AMD G-Series Processor GX-212JC/GX-218GL
- System Memory: 1 x DDR3 SO-DIMM socket, supporting up to 8GB 1333MT/s SDRAM
- BIOS: AMI BIOS
- Watchdog Timer: 1~255 levels reset

I/O
- Super IO Chipset: Fintek F71869ED
- Serial Port: 1 x RS-232
  - 1 x RS-232/422/485 (by Carrier Board)
- Parallel Port: SPP/EPP/ECP mode selectable
- KB/MS: PS/2 interface for keyboard and mouse
- USB 2.0: 4 x USB 2.0 ports
- Expansion: 4 x PCI (OEM request)

Storage
- 2 x Serial ATA ports with 600MB/s HDD transfer rate
- Two PATA ports via JMB368 PCIex1 to PATA controllers

Ethernet Chipset
- 1 x Realtek RTL8105E PCIe 10/100Base-T Ethernet controller

Audio
- Realtek ALC662 HD Audio CODEC, Mic-in/Line-in/Line-out

Display
- Graphic Chipset: Integrated in AMD Radeon™ HD 8000E Graphics
- Analog RGB/DVI: Analog RGB
- Graphic Interface: LCD: Dual Channels 24-bit LVDS
  - DDI port: 1 x DDI port

OS Support
- Windows 7
- Windows 10
- Linux

Mechanical & Environmental
- Power Requirement: DC 5V, 5VSB
- Power Consumption: 2.66A@5V(GX-212JC typical)
- Operating Temp.: 0 ~ 60°C (0 ~ 140°F)
- Operating Humidity: 0 ~ 95% @ 60°C (non-condensing)
- Dimensions (L x W): 114 x 95 mm (4.5” x 3.7”)

Dimensions

All specifications are subject to change without notice.
Block Diagram

AMD APU G-series
GX-212JC
GX-218GL

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>EmETX-a58M1-212JC</td>
<td>AMD GX-212JC ETX 3.02 CPU module</td>
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<tr>
<td>EmETX-a58M1-218GL</td>
<td>AMD GX-218GL ETX 3.02 CPU module</td>
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Optional Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>HS-58M1-F2</td>
<td>Heat Spreader; Threaded standoffs, 114<em>95</em>9mm, W/PAD</td>
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<tr>
<td>HS-58M1-C1</td>
<td>Heat Spreader; 114<em>95</em>28mm, W/FAN</td>
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<tr>
<td>PBE-1000 R2.1</td>
<td>ETX evaluation carrier board in ATX form factor</td>
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<td>CBK-05-100-00</td>
<td>Cable kit</td>
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<tr>
<td></td>
<td>1 x FDD cable</td>
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<tr>
<td></td>
<td>3 x COM port cables</td>
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<td></td>
<td>1 x USB cable</td>
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<td>2 x IDE cables</td>
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<td>1 x TV-out cable</td>
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Last update: 6/3/2017