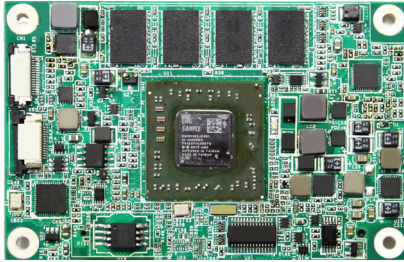


# EmNANO-a56M0

AMD G-Series Processor GX-210HA Dual Core  
 COM Express® Mini Type 10 CPU Module



## Features

- Soldered onboard AMD G-Series Processor GX-210HA
- Integrated Gigabit Ethernet
- Single Channel 18-bit LVDS and DDI port
- Supporting Dual Independent Displays
- **Extended Operating Temp.: -20 ~ 70°C**

## System

|                |   |
|----------------|---|
| Processor      | Soldered onboard AMD G-Series Processor GX-210HA 1.0GHz |
| Memory         | Soldered onboard 2GB DDR3L SDRAM                        |
| BIOS           | AMI BIOS  |
| Watchdog Timer | 1~255 levels reset                                      |

## I/O

|                  |   |
|------------------|---|
| USB 2.0          | 8 x USB 2.0 ports                                   |
| USB 3.0          | 2 x USB 3.0 ports                                   |
| Expansion        | 3 x PCIe1, LPC                                      |
| Storage          | 2 x Serial ATA ports with 600MB/s HDD transfer rate |
| Ethernet Chipset | 1 x Realtek RTL8111E PCIe GbE controller            |
| Digital I/O      | 8-bit Programmable                                  |
| Audio            | HD link   |

## Display

|                   |   |
|-------------------|---|
| Graphic Chipset   | Integrated Radeon HD 8210E Graphics   |
| Graphic Interface | Analog RGB/DVI: Analog RGB by FPC conn. (OEM request)<br>LCD: Single Channel 18-bit LVDS, with resolution up to 1400x1050<br>DDI port: 1 x DDI port |

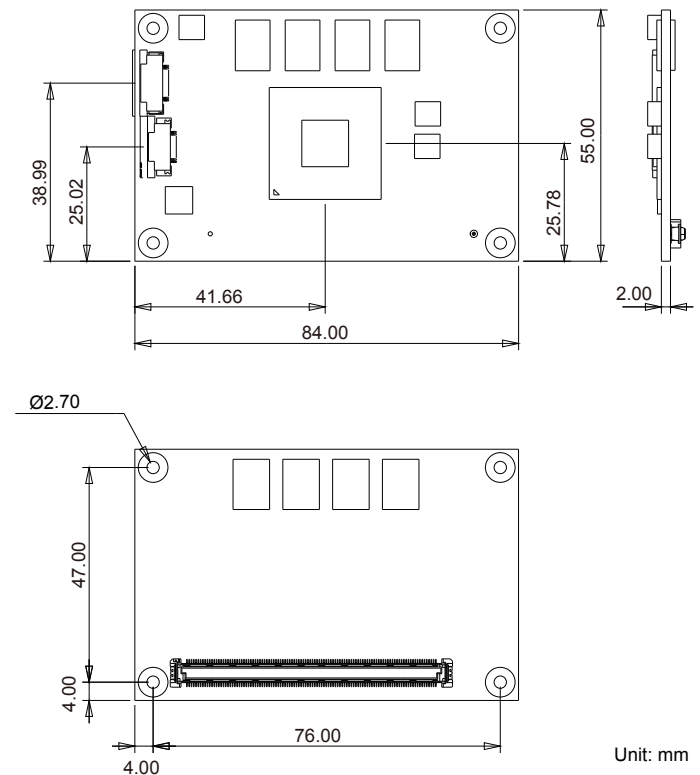
## OS Support

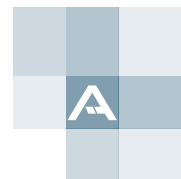
Windows 7 32-bit/64-bit  
 Windows 8 32-bit/64-bit  
 Linux: Ubuntu

## Mechanical & Environmental

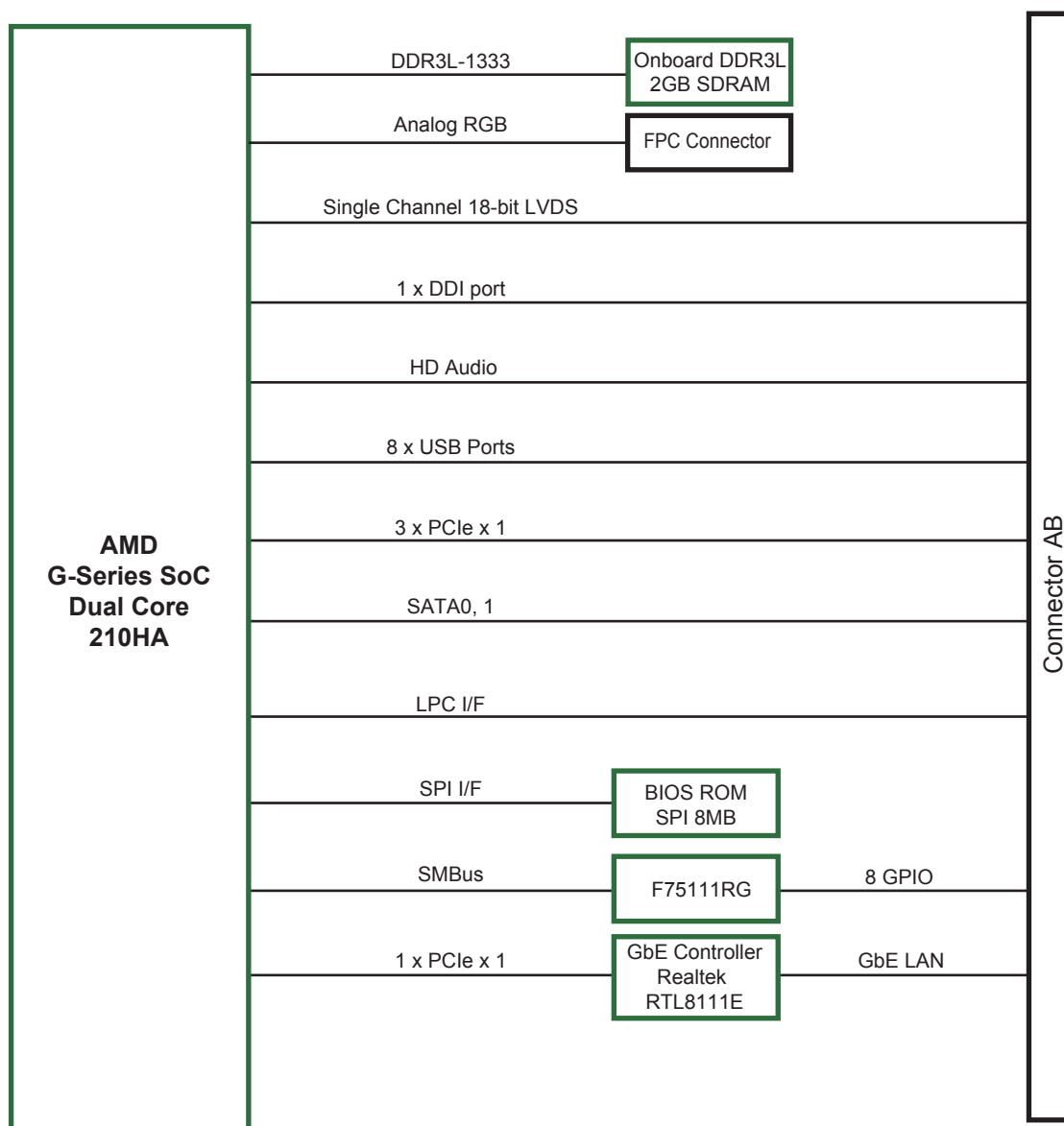
|                    |                                    |
|--------------------|------------------------------------|
| Power Requirement  | DC 12V, 5VSB                       |
| Power Consumption  | 1.08A@12V (Typical, with PBN-9007) |
| Operating Temp.    | -20 ~ 70°C (-4 ~ 158°F)            |
| Operating Humidity | 10 ~ 95% @ 70°C (non-condensing)   |
| Dimensions (L x W) | 84 x 55 mm (3.30" x 2.17")         |

## Dimensions





## Block Diagram



### Ordering Information

|                    |   |
|--------------------|---|
| EmNANO-a56M0-210HA | AMD GX-210HA DC COM Express® Mini Type 10 module with 2GB memory soldered on CPU module |
|--------------------|---|

### Optional Accessories

|                |   |
|----------------|---|
| HS-56M0-F1     | Heat spreader 84x55x11mm  |
| HS-56M0-C1     | Heat sink with FAN 84x55x32.5mm   |
| PBN-9007       | COM Express® Mini Type 10 carrier board   |
| CBK-05-9007-00 | Cable Kit<br>1 x USB cable<br>1 x Serial port cable<br>1 x SATA cable<br>1 x SATA power cable<br>1 x PS/2 cable |