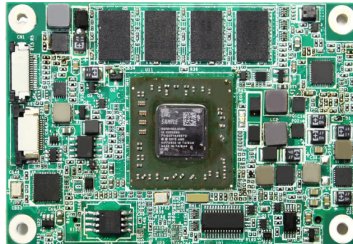




# EmNANO-a56M0

**COM**   
**Express**

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 Chennel 18-bit LVDS, with resolution up to 1400x1050<br>DDI port: 1 x DDI port |

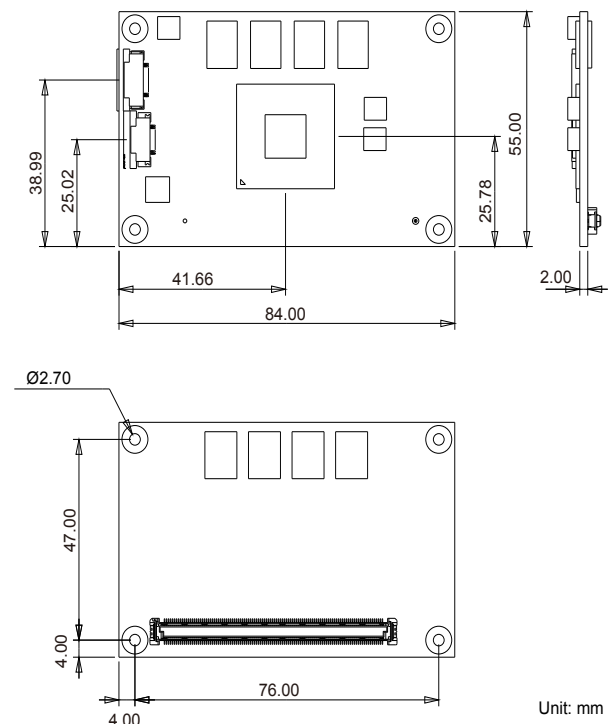
## OS Support

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



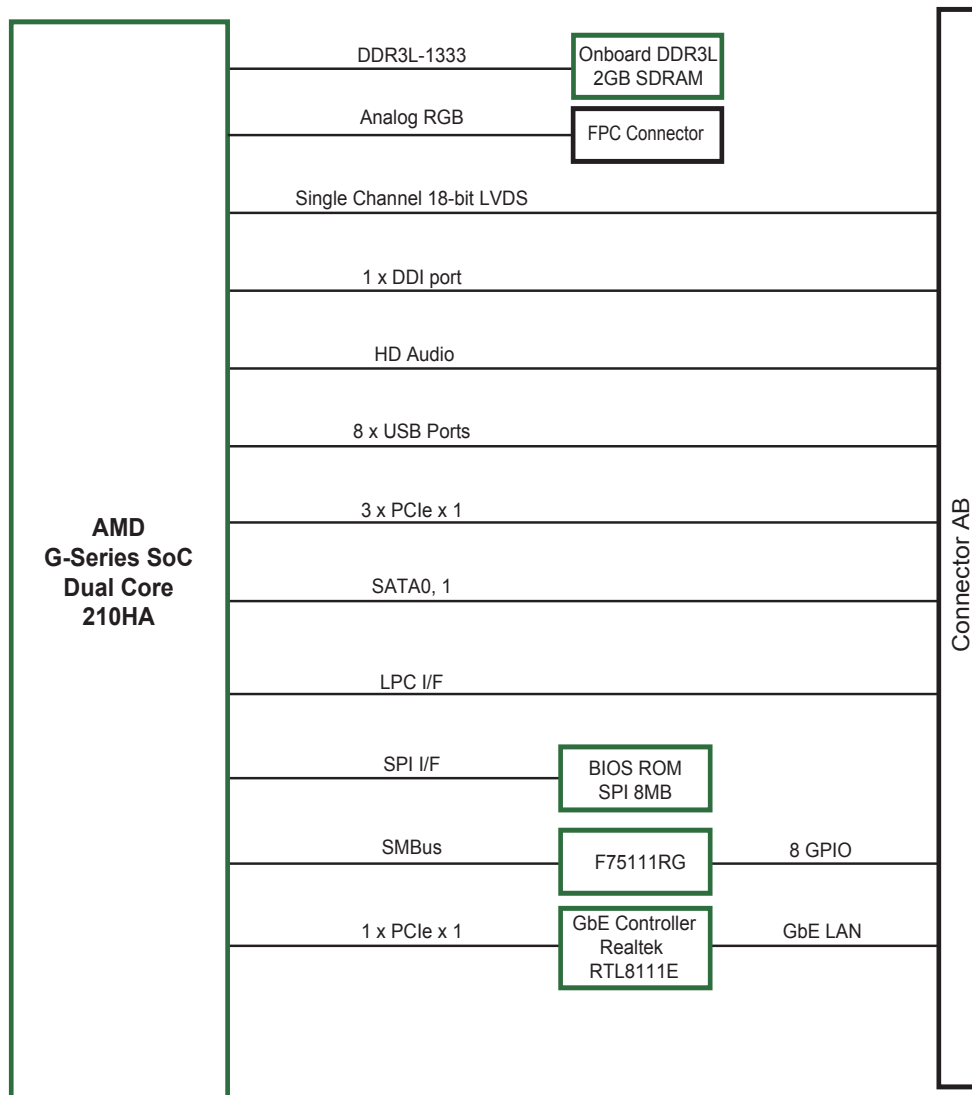
Unit: mm

Computer on Module

All specifications are subject to change without notice.



## 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 |

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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