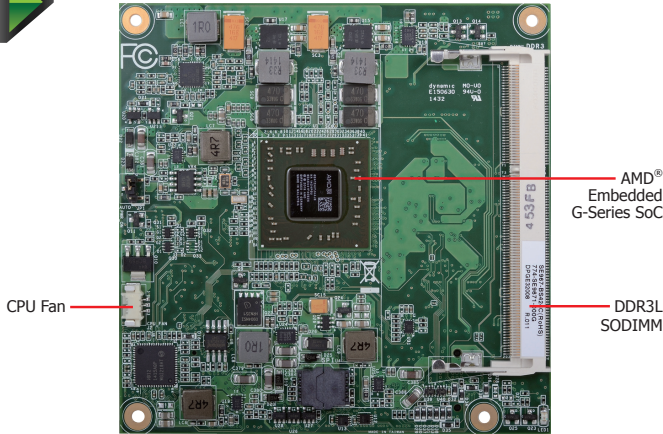




# SE967

G-Series SoC

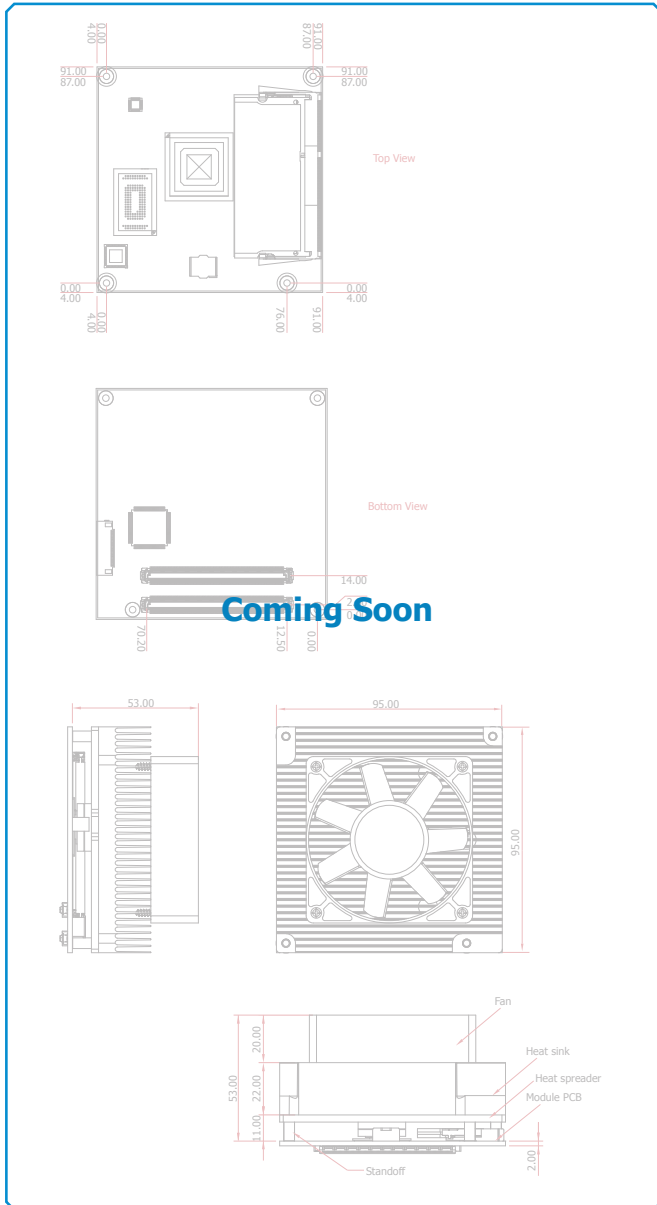


## Features

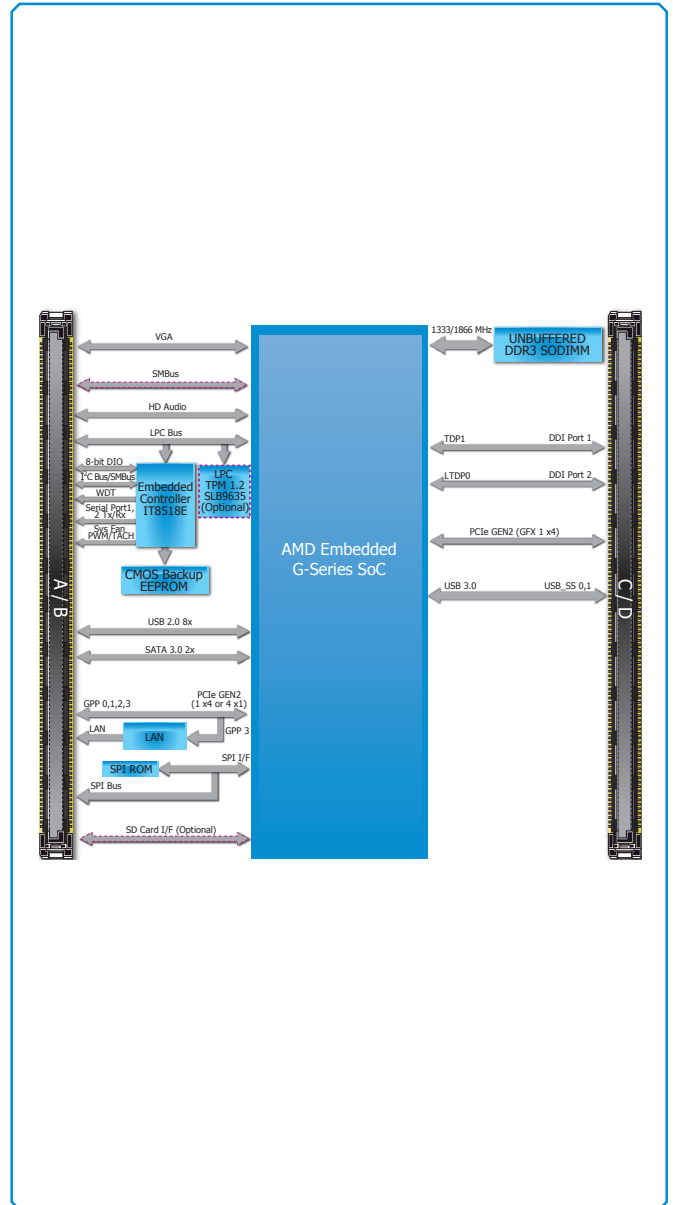
MEMORY	1 DDR3 SODIMM up to 8GB
EXPANSION	1 PCIe x4, 4 PCIe x1 1 LPC, 1 I <sup>2</sup> C, 1 SMBus, 2 serial 1 VGA, 2 DDI (HDMI/DVI/DP) 8 USB: 2 USB 3.0/2.0, 6 USB 2.0 2 SATA 3.0 8-bit DIO
LAN	1 LAN
DIMENSIONS	COM Express® R2.1 Compact, Type 6 95mm x 95mm (3.74" x 3.74")



## Mechanical Drawing



## Block Diagram



# SE967

## ► Specifications \* Optional and is not supported in standard model. Please contact your sales representative for more information.

### APU (Accelerated Processing Unit)

- AMD® Embedded G-Series SoC FT3b BGA
- 28nm process technology
- Please refer to the Ordering Information below

### SYSTEM MEMORY

- One 204-pin DDR3 SODIMM socket
- Supports DDR3 1333/1866MHz
- Supports single channel memory interface
- Supports up to 8GB system memory
- DRAM device technologies: 1Gb, 2Gb, 4Gb and 8Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

### ONBOARD GRAPHICS FEATURES

- Advanced discrete-level GPU integrated in the processor
- Supports VGA, DDI interfaces
- VGA: resolution up to 2048x1536 @ 60Hz
- Digital Display Interface: HDMI, DVI and DP
- HDMI: resolution up to 4096x2160 @ 30Hz
- DVI: resolution up to 1920x1200 @ 60Hz
- DP: supports DP++, resolution up to 4096x2160 @ 30Hz
- Supports hardware acceleration for DirectX 11.1, H.264, MPEG-2, MPEG-4 AVC, VC-1 and WMV

### ONBOARD AUDIO FEATURES

- Supports High Definition Audio interface

### ONBOARD LAN FEATURES

- Intel® WGI210AT Gigabit Ethernet Controller
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

### SERIAL ATA (SATA) INTERFACE

- Supports 2 Serial ATA interfaces
- SATA 3.0 with data transfer rate up to 6Gb/s
- Integrated Advanced Host Controller Interface (AHCI) controller

### SD INTERFACE\*

- Secure Digital (SD) 3.0
- SD/SDHC/SDXC support up to SDR104 transfer rate
- 3.3V/1.8V signaling

### TRUSTED PLATFORM MODULE (TPM)\*

- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

### WATCHDOG TIMER

- Watchdog timeout programmable via software from 1 to 255 seconds

### EXPANSION INTERFACES

- Supports 8 USB 2.0 ports (first 2 USB ports support up to USB 3.0)
- Supports 1 PCIe x4 (GFX)
- Supports 4 PCIe x1 (GPP, GPP3 is connected to onboard LAN by default)
- Supports LPC interface
- Supports I<sup>2</sup>C interface
- Supports SMBus interface
- Supports 2 serial interfaces (TX/RX)
- Supports 8-bit Digital I/O

### DAMAGE FREE INTELLIGENCE

- Monitors APU temperature
- Monitors APU fan speed
- Monitors APU\_VDD/APU\_VDDNB/APU\_VDDIO\_SUS/1V8/0V95 voltages
- Watchdog timer function

### BIOS

- AMI BIOS
- 64Mbit SPI BIOS

### POWER CONSUMPTION

- TBD

### OS SUPPORT

- Windows 7 Ultimate x86 & SP1 (32-bit)
- Windows 7 Ultimate x64 & SP1 (64-bit)
- Windows 8.1 Enterprise x64 (64-bit)

### TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

### HUMIDITY

- 5% to 90%

### POWER INPUT

- 12V, 5VSB, VCC\_RTC (ATX mode)
- 12V, VCC\_RTC (AT mode)

### PCB

- Dimensions
  - COM Express® Compact
  - 95mm (3.74") x 95mm (3.74")
- Compliance
  - PICMG COM Express® R2.1, Type 6

## ► Ordering Information

Model Name	Processor	Memory	Power	Thermal	Temperature
SE967-BS424C	AMD® GX-424CC, Quad Core, 2M Cache, 2.4 GHz, 25W	2 SODIMM (8GB DDR3L)	ATX/AT	Fan	0°C to 60°C
SE967-BS412H	AMD® GX-412HC, Quad Core, 2M Cache, 1.2 GHz, 7W	2 SODIMM (8GB DDR3L)	ATX/AT	Fan	0°C to 60°C

## ► Packing List

- 1 SB967 board
- 1 QR (Quick Reference)
- 1 DVD

## ► Optional Items

- COM331-B carrier board kit: 770-COM331-000G
- COM101-BAT carrier board kit: 770-COM101-000G
- Heat spreader with heat sink and fan: TBD