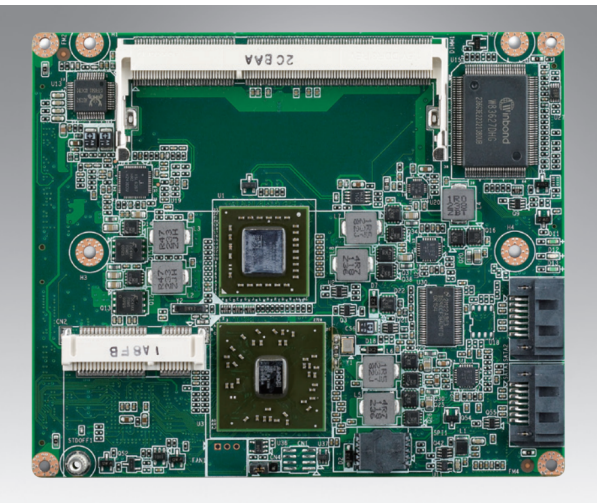


SOM-4466



AMD G-Series Processor + FCH A55E

f Supports DX11, OGL3.2, and H.264/AVC, VC-1 HW Acceleration

f Supports DDR3-1066 up to 4GB

f Supports PCI, ISA, SMBus, I2C

f Supports 10/100 LAN, SATA, mSATA Socket, IDE, USB2.0

Expansion Interface

PCI: Supports 4 PCI Master

ISA: 16-bit data bus

*AMD announced ISA audio card support will be limited to single core G Series APU.

LPC Bus: Yes

SMBus: SMBus 2.0 specification

*SMBus can't support to simulate to I2C. It supports byte read write, word read write only.

I2C: Supports 10 KHz ~ 100 KHz

I/O

Ethernet: Realtek 8105E PCIe-to-10/100 Mbps LAN

SATA: Supports 2 ports SATA Gen3 (600 Gb/s)

mSATA: 1 Half-Size mSATA socket on ETX Module, SATA Gen 3 600 MB/s

compliant

USB Interface: Supports 4 ports USB 2.0

Audio Interface: Realtek ALC262. Support Line-in(L/R), Line-out(L/R), MIC

Serial Port: Supports 2 ports

IrDA: shared with COM2

Panel Control: Supports panel backlight on/off control, brightness control

IDE: 2 Channels, each channel support up to 1 IDE device. ATA/ATAPI-7

(UDMA133) compliant

Watchdog Timer: 256 level timer interval, from 0 to 255 sec or min setup by

software, jumperless selection, generates system reset

GPIO: 1 GPIO, 2 GPE (GPE function by customer define)

Hardware Monitor: +5 V / +5 VSB / VBAT

LPT: function selectable by BIOS setting

Floppy: function selectable by BIOS setting

Mechanical and Environmental Specification

Dimensions: 114 x 95 mm (3.74" x 4.5")

Power Type:

– ATX: Vin, VSB; AT: Vin

Supply Voltage:

– Vin: 5V, VSB: 5 V, *VBAT:3 V

(VBAT is optional; if remove VBAT, the RTC time will not be kept, and the partial

bios setting will be lost.)

Power Requirement:

– Test condition: SOM-4466 (T16R), 4 GB DDR3 SO-DIMM, WIN XP SP3,

Burn In Test V6.0 Pro.

– Idle: +5 V @ 1.22 A

– Max: +5 V @ 1.55 A

Temperature Specification:

– Operating: 0 ~ 60° C (32 ~ 140° F)

– Storage: -40 ~ 85° C (-40 ~ 185° F)

Humidity Specification:

– Operating: 40° C @ 95% relative humidity, non-condensing

– Storage: 60° C @ 95%relative humidity, non-condensing

The CPU is EOL for this product, please see [this article](#) for more information.

SOM-4466 is an embedded ETX module that fully complies with the ETX form factor standard. This ETX module supports AMD G Series T16R APU+A55E chipset which delivering sufficient performance with extremely low power consumption. SOM-4466 comes with extensive legacy interfaces such as PCI, ISA, and IDE, and support for both 24-bit LVDS, and 18-bit TTL panels.

SOM-4466 adopts up to 4GB DDR3 memory to provide higher speeds and capacity for better availability. To fulfill on board storage inquiries, SOM-4466 supports mSATA storage interface, this function has the benefit of easy maintenance, compact size, and good availability and lots of sizes/technology selections. SOM-4466 is an entry level ruggedized platform with sufficient performance, low power consumption and rich legacy interface support in HMI, M2M, IoT, medical, Industrial, automation and gaming applications.

Specifications

SOM Type:

PC-Comaptible ETX Modules

Processor

AMD G-Series Processor

Clock Speed:

1.65 GHz

Real Time Clock:

Processor Misc.:

AMD G-Series Processor + FCH A55E

AMD T16R 615 MHz/Single Core/512 KB

AMD T40E 1GHz/Dual Core/512KB

AMD T56N 1.65GHz/Dual Core/512KB

Memory

BIOS/Bootloader:

AMI SPI

Primary I/O

GPIO:	
1 GPIO	
2 GPE	
Disk Interface:	
2x IDE	
mSATA & 2x SATA III	
Video Out:	
VGA	
LVDS	
and TTL	
Audio:	
HD Audio-Realtek ALC262 CODEC	
Ethernet:	
Realtek RTL8105E 10/100 LAN	
USB:	
4x USB 2.0	
Serial Ports:	
2x COM	
Watchdog:	
Secondary I/O	
UART	
Keypad:	
PS/2:	
Analog on A/D	
D/A:	
Dimensions	
Dimensions	
3.74 × 4.5 in	
Form Factor:	
ETX 3.02	
Dimensions Misc.:	
ETX Module 114 x 95 mm (3.74" x 4.5")	
Environmental nents	
Pricing	
SOM-4466L-M0	
SOM-4466L-M0A1E, ETX, AMD T16R 1x 615MHz, mSATA, 2x COM, 4x USB2, 10/100 LAN, VGA & LVDS	
\$205.00	
Order:	
0	
Parent Product:	
SOM-4466	
Base Product:	
SOM-4466	
SOM-4466L-S6	
SOM-4466L-S6A1E, ETX, AMD T56N 2x 1.65GHz, mSATA, 2x COM, 4x USB2, 10/100 LAN, VGA & LVDS	
\$245.00	
Order:	
0	
Parent Product:	
SOM-4466	
Base Product:	
SOM-4466	

SOM-4466LZ2-M0

SOM-4466LZ2-M0A1E, ETX, AMD T16R 1x 615MHz, mSATA, 2x COM, 4x USB2, 10/100 LAN, VGA & LVDS -40~85C

\$360.00

Order:

0

Parent Product:

SOM-4466

Base Product:

SOM-4466

SOM-4466LZ-M0

SOM-4466LZ-M0A1E, ETX, AMD T56N 2x 1.65GHz, mSATA, 2x COM, 4x USB2, 10/100 LAN, VGA & LVDS -20~80C

\$260.00

Order:

0

Parent Product:

SOM-4466

Base Product:

SOM-4466

SOM-4466T-M0

SOM-4466T-M0A1E, ETX, AMD T16R 1x 615MHz, mSATA, 2x COM, 4x USB2, 10/100 LAN, VGA & TTL

\$205.00

Order:

0

Parent Product:

SOM-4466

Base Product:

SOM-4466

SOM-4466TZ2-M0

SOM-4466TZ2-M0A1E, ETX, AMD T16R 1x 615MHz, mSATA, 2x COM, 4x USB2, 10/100 LAN, VGA & TTL -40~85C

\$360.00

Order:

0

Parent Product:

SOM-4466

Base Product:

SOM-4466

SOM-4466TZ-M0

SOM-4466TZ-M0A1E, ETX, AMD T16R 1x 615MHz, mSATA, 2x COM, 4x USB2, 10/100 LAN, VGA & TTL -20~80C

\$260.00

Order:

0

Parent Product:

SOM-4466

Base Product:

SOM-4466

Non-Stock NCNR:

0

Source URL: <https://www.emacinc.com/content/som-4466>