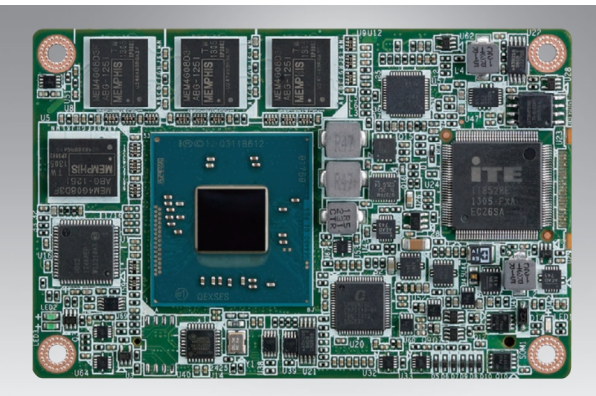


SOM-7567



Intel® Atom™ 3800/Celeron® N2000 series processor

COM R.2.1 Type 10 Mini Module 84 x 55 mm

Onboard DDR3L and SSD

Gigabit Ethernet

4.75 ~ 20 V wide-voltage input support

Board Information

Pin Definition: PICMG COM.0 R2.1 Type 10 pin-out definition

Form Factor: PICMG COM.0 R2.1 Mini Module 84 x 55 mm

Memory:

– Up to 4GB on board DDR3L 1333MHz memory for E3845, J1900 & N2930.

– Up to 4GB on board DDR3L 1066MHz memory for E3825 & E3815.

BIOS: AMI UEFI 64Mbit SPI BIOS

Power management: Supports power saving modes including Normal / Standby / Suspend modes. ACPI 2.0 compliant

Display

Graphic Core:

- Supports DX*11, OpenGL 3.0 (OGL 3.0), OpenCL 1.2 (OCL 1.2), OpenGLES 2.0 (OGLES 2.0)
- Full HW acceleration for decode of H.264, MPEG2, MVC, VC-1, VP8, MJPEG
- Full HW acceleration for encode of H.264, MPEG2, MVC

LVDS: Single channel 18/24-bit, up to 1366 x 768 resolution

HDMI/DVI/DP: Supports 1 port HD

- – Display port up to 2560 x 1600.

Dual Display: Supports LVDS + HDMI/DVI/DP

Expansion Interface

PCI Express x1: 3 Ports (optional 4 PCIe x1 or 1 PCIe x4 while removing Ethernet), compliant to PCIe Gen2 5.0 GT/s

Audio Interface: Intel HD Audio interface

LPC Bus

SMBus

I2C Bus: Up to 400KHz

SPI: Supports SPI BIOS only

I/O

Onboard Flash: Supports on board flash up to 64GB

Ethernet: Intel I210 Gigabit LAN supports 10/100/1000 Mbps Speed

SATA: 1 Ports (optional 2 ports while remove onboard storage), compliant to SATA2.0 3.0 Gb/s

USB Interface: Supports 1 port USB3.0, 4 ports USB 2.0

Serial Port: Supports 2 ports 2-wire serial port

Express Card: 2 ports

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

Thermal Protection: Supports thermal shutdown or CPU throttling

Watchdog Timer: 65536 level timer interval, from 0~65535 sec, multi-level, multi-option watchdog timer

Smart Fan: 1 port down to carrier board

GPIO: 8 GPIO

Hardware Monitor: Vin, 5VSB, CMOS

SOM-7567 is a COM-Express Mini module with Type 10 pin-out that fully complies with the PICMG (PCI Industrial Computer Manufacturers Group) COM.0 R2.1 specification.

The new CPU module uses Intel 4th generation of Atom processors (Bay trail) which are based on 22nm leading-edge low-power SoC, and can provide more than twice CPU performance and five times graphic performance over previous Atom series, but with lower power consumption.

SOM-7567 with COMe Mini 84mm x 55mm small form factor integrates up to 4GB on-board memory and up to 64GB on-board flash storage for a perfect rugged solution. In addition, the upgrade of 3 ports of PCIe Gen 2 and USB 3.0 enable this model to achieve higher speeds for data transition. With wide-range voltage input from 4.75 to 20V, SOM-7567 offers a perfect solution for applications in medical, Industrial automation and portable devices.

Specifications

SOM Type:

COM Express Modules

Processor

Intel® Atom™ E3800 Product Family/Celeron® N2000 Series SoC Processor

Clock Speed:

1.91 GHz

Real Time Clock:

Processor Misc.:

Intel® Atom™ E3800 Product Family/Celeron® N2000 Series SoC Processor

N2930: Quad Core 1.83 GHz/ 7.5W

J1900: Quad Core 2.0 Ghz/ 10W

E3845: Quad Core 1.91 GHz/ 10W

E3825: Dual Core 1.33 GHz/ 6W

E3815: Single Core 1.46 GHz/ 5W

Memory

BIOS/ Bootloader:

AMI UEFI 64Mbit

Primary Flash:

Up to 16GB Onboard SSD

Secondary Flash:

SATA

Memory Misc.:

All system memory is on board, options of 2GB or 4GB DDR3L

Primary I/O

1x 8-bit GPIO

Disk Interface:

SATA

Video Out:

Intel® HD graphics (Gen 7 gfx)

SPI:

1 channel

for SPI BIOS EEPROM

Audio:

Intel HD Audio

Ethernet:

Intel i210E Gigabit Ethernet

USB:

1 x USB 3.0 & 4 x USB 2.0

Serial Ports:

2 x 2-wire COM ports

I2C:

yes

Watchdog:

Primary I/O Misc.:

SPI bus - 1 Channel for SPI BIOS EEPROM

SMBus

I2C Bus

Secondary I/O

Keypad:

PS/2:

Expansion

optional 4 x PCIe x1 or 1x PCIe x4 by removing Ethernet.

Analog

D/A:

Dimensions

3.3 × 2.17 in

Form Factor:

COM EXPRESS Mini

Power Requirements

12 V

Idle Current:

680 mA

Constant Busy Loop Current:

1.59 A

Typical Voltage:

12 V

Power Misc.:

Type ATX: Vin, VSB, AT: Vin

Supply Voltage Vin: 4.75V - 20V

- VSB: 4.75V - 5.25V

Power Consumption (Max.)

- +12V @ 1.38A (E3845)
- +12V @ 1.59A (J1900)

- +12V @ 0.74A (E3815)
- +12V @ 0.84A (E3825)
- +12V @ 1.44A (N2930)

Power Consumption (Idle)

- +12V @ 0.67A (E3845)
- +12V @ 1.59A (J1900)
- +12V @ 0.59A(E3815)
- +12V @ 0.64A (E3825)

+12V @ 0.68A (N2930)

Environmental
Low Operating Temperature:
0 C

High Operating Temperature:
60 C

Upper Operating Humidity:
90%

Environmental Misc.:

Temperature Operating: 0 ~ 60° C (32 ~ 140° F) Storage: -40 ~ 85° C (-40 ~ 185° F) Humidity Operating: 40° C @ 95% relative humidity, non-condensing Storage: 60° C @ 95%relative humidity, non-condensing

Pricing SOM-7567BS0C-S3

SOM-7567BS0C-S3A1E, UCOMeT10, E3825 2x1.33GHz, 2GB DDR3, 2xSATA, 2xCOM, USB3, 4xUSB2, GbE, DP
\$245.00

Order:

0

Parent Product:

SOM-7567

Base Product:

SOM-7567

SOM-7567BS0C-S5

SOM-7567BS0C-S5A1E, UCOMeT10, E3815 1.46GHz, 2GB DDR3, 2xSATA, 2xCOM, USB3, 4xUSB2, GbE, DP
\$245.00

Order:

0

Parent Product:

SOM-7567

Base Product:

SOM-7567

SOM-7567BS0C-S8

SOM-7567BS0C-S8A1E, UCOMeT10, N2930 4x1.83GHz, 2GB DDR3, 2xSATA, 2xCOM, USB3, 4xUSB2, GbE, DP
\$332.00

Order:

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Parent Product:

SOM-7567

Base Product:
SOM-7567
SOM-7567CM8C-U0
SOM-7567CM8C-U0A1E, UCOMeT10, J1900 4x2.0GHz, 4GB DDR3, 8GB eMMC, 2xSATA, 2xCOM, USB3, 4xUSB2, GbE, DP
\$321.00
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Base Product:
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SOM-7567CS0C-S9
SOM-7567CS0C-S9A1E, UCOMeT10, E3845 4x1.91GHz, 4GB DDR3, 2xSATA, 2xCOM, USB3, 4xUSB2, GbE, DP
\$301.00
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SOM-7567
Base Product:
SOM-7567
SOM-7567CS0X-S9
SOM-7567CS0X-S9A1E, UCOMeT10, E3845 4x1.91GHz, 4GB DDR3, 2xSATA, 2xCOM, USB3, 4xUSB2, GbE, DP (-40~85C)
\$398.00
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Parent Product:
SOM-7567
Base Product:
SOM-7567
Non-Stock NCNR:
0

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