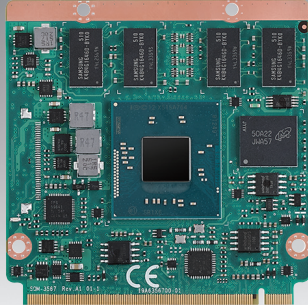


# SOM-3567

## Intel® Atom™ E3800 & Celeron® Processor QSeven CPU Module



Windows Embedded

iManager WISE-PaaS/RMM



### Features

- Intel® Atom® E3800 and Celeron® Processor Series
- Qseven® 2.1 Specification Compatible
- Onboard Dual Channel DDR3L-1333 up to 8GB, eMMC up to 32GB
- LVDS and HDMI/DP support H.264, MPEG2 HW Decode/Encode
- GbE, 3 PCIe x1, 1 USB3.0, 6 USB2.0
- iManager WISE-PaaS/RMM, and Embedded Software APIs

Software APIs:



Watchdog



PC



SMBus



H/W Monitor



GPIO

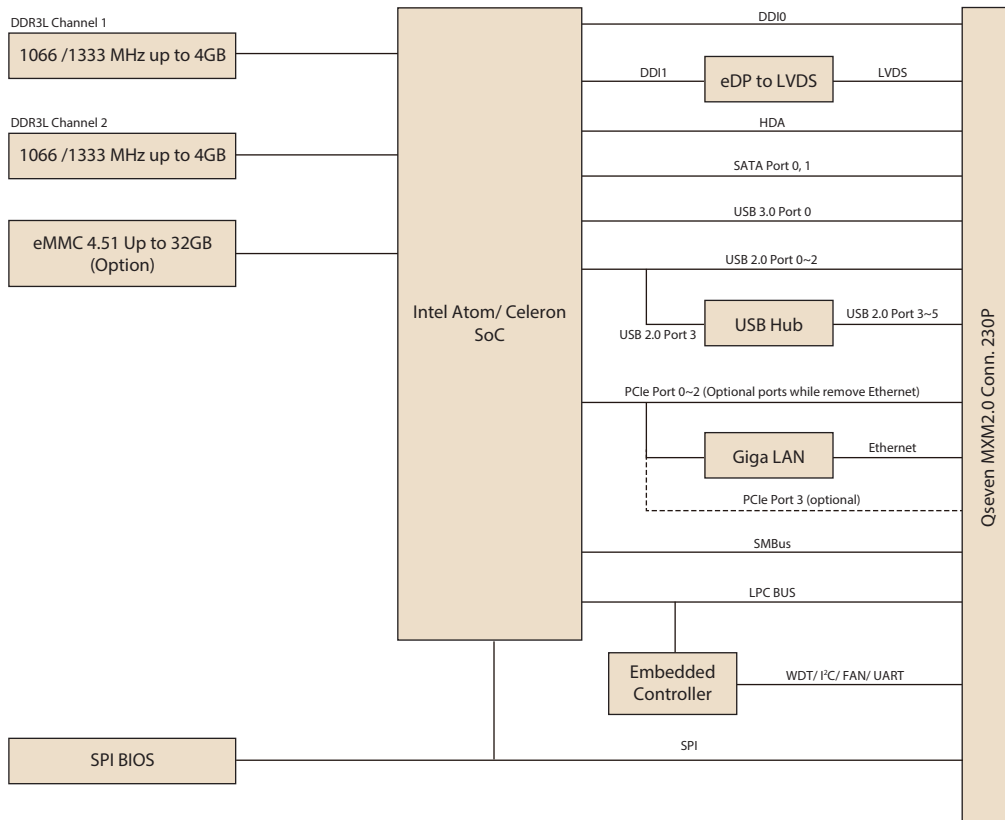


Brightness Control

### Specifications

|                   |   |  |   |             |             |             |                |                |  |
|-------------------|---|--|---|-------------|-------------|-------------|----------------|----------------|--|
| Compliance        | Form-Factor   | QSeven 70 x 70 mm  |   |             |             |             |                |                |  |
|                   | Pin-out Type  | QSeven 2.1   |   |             |             |             |                |                |  |
| Platform          | CPU   | Atom® E3845  | Atom® E3827                                   | Atom® E3825 | Atom® E3815 | Atom® E3805 | Celeron® J1900 | Celeron® N2807 |  |
|                   | Base Frequency  | 1.91GHz  | 1.75GHz                                       | 1.33GHz     | 1.46GHz     | 1.33GHz     | 2.00GHz        | 1.58GHz        |  |
|                   | Burst Frequency   | -  | -   | -           | -           | -           | 2.42GHz        | 2.16GHz        |  |
|                   | Core/Thread   | 4/4  | 2/2   | 2/2         | 1/1         | 2/2         | 4/4            | 2/2            |  |
|                   | LLC   | 2MB  | 1MB   | 1MB         | 512KB       | 1MB         | 2MB            | 1MB            |  |
|                   | CPU TDP   | 10W  | 8W  | 6W          | 5W          | 3W          | 10W            | 4.3W           |  |
|                   | Chipset   | N/A  |   |             |             |             |                |                |  |
|                   | BIOS  | AMI EFI BIOS   |   |             |             |             |                |                |  |
| Memory            | Technology  | DDR3L-1333   | DDR3L-1333                                    | DDR3L-1066  | DDR3L-1066  | DDR3L-1066  | DDR3L-1333     | DDR3L-1333     |  |
|                   | ECC Support   | Not support  |   |             |             |             |                |                |  |
|                   | Channel/Socket  | Onboard Single/Dual Channels   |   |             |             |             |                |                |  |
|                   | Max. Capacity   | Up to 8GB  |   |             |             |             |                |                |  |
| Graphics          | Controller  | Intel® Gen 7   |   |             |             | No graphic  |                |                |  |
|                   | Base/Turbo Freq.  | 542MHz   | 542MHz  | 533MHz      | 400 MHz     | No graphic  | 688 MHz        | 313MHz         |  |
|                   | Graphics Burst Frequency                                  | 792MHz   | 792MHz  | -           | -           | No graphic  | 854 MHz        | 750MHz         |  |
|                   | Graphics Memory   | Up to 1720MB DVMT  |   |             |             | No graphic  |                |                |  |
|                   | 3D/HW Acceleration  | DX11, OGL3.2, OCL1.1, and H.264/AVC, VC-1, MPEG2 HW Decode/Encode                  |   |             |             | No graphic  |                |                |  |
| Display           | LCD   | LVDS: Dual channel 18/24-bit, up to 1920 x 1080                                    |   |             |             |             |                |                |  |
|                   | DDI   | 1 DDI support HDMI/DVI/DP configurable   |   |             |             |             |                |                |  |
|                   |   | HDMI 1.4b: 3840 x 2160 @ 30Hz or 2560 x 1600 @ 60Hz, 24 bpp                        |   |             |             |             |                |                |  |
|                   |   | DVI: up to 1920 x 1080 @ 60Hz  |   |             |             |             |                |                |  |
| Multiple Display  | DP 1.1a: 3840 x 2160 @ 30Hz or 2560 x 1600 @ 60Hz, 24 bpp |  |   |             |             |             |                |                |  |
| Expansion         | PCI Express   | 3 PCIe x1, optional 4 ports while remove Ethernet; Support x1, x2, x4 configurable |   |             |             |             |                |                |  |
|                   | Audio Interface   | HD Audio   |   |             |             |             |                |                |  |
|                   | LPC   | Yes  |   |             |             |             |                |                |  |
| Serial Bus        | SMBus   | Yes  |   |             |             |             |                |                |  |
|                   | I <sup>2</sup> C Bus                                      | Yes  |   |             |             |             |                |                |  |
| Ethernet          | Controller  | Intel® i210IT  |   |             |             |             |                |                |  |
|                   | Speed   | 10/100/1000 Mbps   |   |             |             |             |                |                |  |
| Onboard Storage   | eMMC  | eMMC4.51 up to 32GB  |   |             |             |             |                |                |  |
|                   | SATA  | 2 Ports, Support Gen3.1 (6Gb/s) and Gen2 (3 Gb/s) or Gen 1(1.5 Gb/s)               |   |             |             |             |                |                |  |
|                   | USB3.0  | 1 Port   |   |             |             |             |                |                |  |
| I/O               | USB2.0  | 6 ports  |   |             |             |             |                |                |  |
|                   | SPI Bus   | Support SPI BIOS EEPROM  |   |             |             |             |                |                |  |
|                   | GPIO  | Not support GPIO mux with LPC  |   |             |             |             |                |                |  |
|                   | Watchdog  | Multi-stage Watchdog Timer Output, 65536 level, 0 ~ 65535 sec                      |   |             |             |             |                |                |  |
|                   | COM Port  | 4-wire COM 2 Ports (1 on MFG pins), optional support GPIO                          |   |             |             |             |                |                |  |
|                   | Smart Fan   | 1 port   |   |             |             |             |                |                |  |
|                   | Power   | Type   | ATX: Vin, VSB, AT: Vin                        |             |             |             |                |                |  |
|                   |   | Supply Voltage   | Vin: 5V±5%, VSB: 5V±5%, RTC Battery: 2.0-3.3V |             |             |             |                |                |  |
| Power Consumption |   | TBD  |   |             |             |             |                |                |  |
| Environment       | Temperature   | 0 ~ 60° C (32 ~ 140° F)  |   |             |             |             |                |                |  |
|                   | Humidity  | Operating: 40° C @ 95% relative humidity, non-condensing                           |   |             |             |             |                |                |  |
|                   |   | Storage: 60° C @ 95%relative humidity, non-condensing                              |   |             |             |             |                |                |  |
| Mechanical        | Vibration Resistance                                      | 3.5 Grms   |   |             |             |             |                |                |  |
|                   | Dimensions  | 70 x 70 mm (2.75" x 2.75")   |   |             |             |             |                |                |  |

## Block Diagram



## Ordering Information

| Part No.           | CPU           | Freq.   | Core | CPU TDP | Memory | eMMC | Thermal Solution | Operating Temperature |
|--------------------|---------------|---------|------|---------|--------|------|------------------|-----------------------|
| SOM-3567CS0CB-S9A1 | Atom E3845    | 1.91GHz | 4C   | 10W     | 4GB    | N/A  | Passive          | 0 ~ 60 °C             |
| SOM-3567CS0CB-U0A1 | Celeron J1900 | 2.00GHz | 4C   | 10W     | 4GB    | N/A  | Passive          | 0 ~ 60 °C             |
| SOM-3567CS0CB-U1A1 | Celeron N2930 | 1.83GHz | 4C   | 7.5W    | 4GB    | N/A  | Passive          | 0 ~ 60 °C             |
| SOM-3567BS0CB-U4A1 | Celeron N2807 | 1.58GHz | 2C   | 4.3W    | 2GB    | N/A  | Passive          | 0 ~ 60 °C             |
| SOM-3567CMBXB-S9A1 | Atom E3845    | 1.91GHz | 4C   | 10W     | 4GB    | 32GB | Passive          | -40 ~ 85 °C           |
| SOM-3567BS0XB-S7A1 | Atom E3827    | 1.75GHz | 2C   | 8W      | 2GB    | N/A  | Passive          | -40 ~ 85 °C           |
| SOM-3567BS0XB-S3A1 | Atom E3825    | 1.33GHz | 2C   | 6W      | 2GB    | N/A  | Passive          | -40 ~ 85 °C           |
| SOM-3567BS0XB-S5A1 | Atom E3815    | 1.46GHz | 1C   | 5W      | 2GB    | N/A  | Passive          | -40 ~ 85 °C           |
| SOM-3567CSAXB-S2A1 | Atom E3805    | 1.33GHz | 2C   | 3W      | 4GB    | 16GB | Passive          | -40 ~ 85 °C           |

\*Any other sku or combination is project based support. Please contact sales for details.

## Packing List

| Part No.       | Description                | Quantity |
|----------------|----------------------------|----------|
| -              | SOM-3567 Qseven CPU Module | 1        |
| 1960076583N000 | Heatspreader               | 1        |

## Optional Accessories

| Part No.       | Description                                  |
|----------------|--|
| 1960058145N001 | Semi-Heatsink, 70L x 63W x 13.2H (0 ~ 60° C) |
| 1960061089N001 | Semi-Heatsink, 70L x 63W x 34H (-40 ~ 85° C) |

## Development Board

| Part No.         | Description              | Quantity |
|------------------|--------------------------|----------|
| SOM-DB3520-00A1E | Qseven Development Board | 1        |

## Embedded OS

| OS   | Part No.   | Description                       |
|------|------------|-----------------------------------|
| WES7 | 2070014541 | img WES7E SOM-3567 X64 V5.7.0 Eng |

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

 Uhlířská 1064/3, 710 00 Ostrava, Česká republika

 obchod@autocont-ipc.cz

 +420 552 301 002

 [www.autocont-ipc.cz](http://www.autocont-ipc.cz)



### PRŮMYSLOVÉ POČÍTAČE

fanless embedded PC, do racku, ...



### POČÍTAČE S DISPLEJEM

panelové PC, terminály, do vozidel, ...



### AUTOMATIZACE A SBĚR DAT

převodníky, karty, moduly, switche, ...



### PERIFERIE A KOMPONENTY

monitory, klávesnice, desky, skříně, ...



### NOTEBOOKY A TABLETY

odolné, windows, android, IP65, ...



### INFORMAČNÍ KIOSKY

interiérové, venkovní, ...



### MEDICÍNSKÁ TECHNIKA

počítače, tablety, LCD, klávesnice, ...



### SOFTWAREVÁ ŘEŠENÍ

pro výrobu, zaměstnance, kiosky, ...



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.