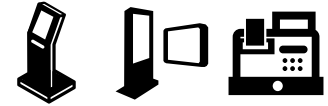
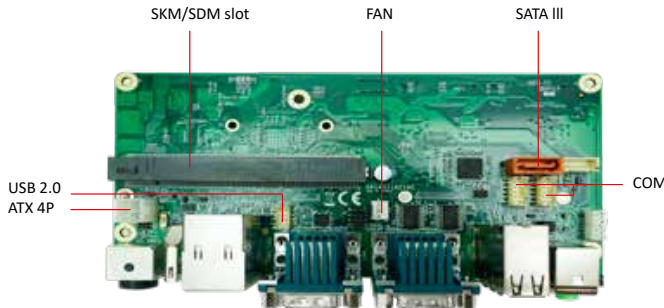


# AEXP-SKM0-IOB0

Intel® Smart Kiosk Module/ Smart Display Module Carrier Board  
Support Intel® SKM/ SDM Module with  
HDMI/cLVDS, SATA/M.2 M-key 2280, 2 mPCIe, 7 COM, 8 USB, LAN.



SKM Module



## Key Features

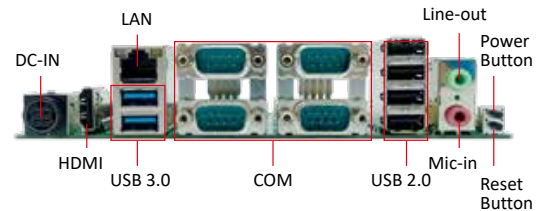
- Support Intel® SKM / SDM Module
- Multi-Display : HDMI / cLVDS 4K@60 (optional)
- Storage : 1 SATA III port and 1 M.2 M-key 2280 (SSD) slot
- Expansion slot : 2 Mini-PCIe (1 w/ uSIM) slots
- Int. I/O : 2 COM, FAN, GPIO (1 bit), GSPI, 2 I<sup>2</sup>C (Master/Slave), UART, 2 USB 2.0 ports
- Rear I/O : 2 Audio Jack (Line-out/Mic-in), 4 COM, LAN (RJ45), 2 USB 3.0 and 4 USB 2.0
- Power input : DC-IN Jack 12Vdc or 19 Vdc ~ 24Vdc

## Product Specification

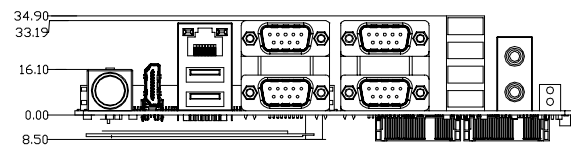
| Module            |                                                                                         |                      |
|-------------------|-----------------------------------------------------------------------------------------|----------------------|
| Intel® SKM        | Intel® SKM                                                                              | 175mm x 140mm module |
| Intel® SDM        | Intel® SDM-S                                                                            | 60mm x 100mm module  |
|                   | Intel® SDM-L                                                                            | 175mm x 100mm module |
| Display           |                                                                                         |                      |
| Graphics          | Please refer to Intel® SKM / SDM module                                                 |                      |
| Display interface | 1 x HDMI (HDMI ver. refer the SDM/SKM module)<br>1 x cLVDS (DP v1.2 to cLVDS, optional) |                      |
| Multi-display     | HDMI + cLVDS (optional)                                                                 |                      |
| Resolution        | HDMI : (HDMI resolution refer to SDM/SKM module)<br>cLVDS : 4K2K @ 60Hz (max.)          |                      |
| Ethernet          |                                                                                         |                      |
| Interface         | LAN MDix interface (SKM only)                                                           |                      |
| Controller        | Please refer to Intel® SKM module                                                       |                      |
| Connector         | 1 x RJ45 (SKM only)                                                                     |                      |
| Audio             |                                                                                         |                      |
| Interface         | Line-out and Mic-in interface (SKM only)                                                |                      |
| CODEC             | Please refer to Intel® SKM module                                                       |                      |
| Expansion Slot    |                                                                                         |                      |
| Mini-PCIe         | 1 x Mini-PCIe Full size w/ uSIM<br>1 x Mini-PCIe Full size (SKM only)                   |                      |
| M.2 (M-key)       | 1 x M.2 M-Key 2280 SATA SSD (SKM only)                                                  |                      |
| Serial ATA        |                                                                                         |                      |
| Max. Data Rate    | 6.0GB/s                                                                                 |                      |
| Port              | 1 x SATA III port (SKM only)                                                            |                      |
| Rear I/O          |                                                                                         |                      |
| Audio             | 1 x Line-out and Mic-in Audio Jack (SKM only)                                           |                      |
| Button            | 1 x Power Button, 1 x Reset Button                                                      |                      |
| COM               | 1 x RS-232/422/485 (SKM only)<br>3 x RS-232 (SKM only)                                  |                      |
| Display           | 1 x HDMI                                                                                |                      |
| LAN               | 1 x LAN RJ-45 (SKM only)                                                                |                      |
| USB               | 4 x USB 2.0 (2 x USB 2.0 SDM only)<br>2 x USB 3.0 (SKM only)                            |                      |
| Internal I/O      |                                                                                         |                      |
| COM               | 1 x RS-232 Tx/Rx, 2 x RS-232 (SKM only)                                                 |                      |
| Display           | 1 x cLVDS (optional)                                                                    |                      |
| FAN               | 1 x 3-pin System Fan                                                                    |                      |
| GPIO              | 1 x 1-bit Programmable GPIO (SKM only)                                                  |                      |
| GSPI              | 1 x General SPI                                                                         |                      |
| I <sup>2</sup> C  | 1 x I <sup>2</sup> C Master, 1 x I <sup>2</sup> C Slave                                 |                      |
| Speaker           | 1 x 10W Audio Amp. for 4Ω speaker (SKM only)                                            |                      |
| USB               | 2 x USB 2.0                                                                             |                      |
| Power Requirement |                                                                                         |                      |
| Power connector   | DC Power Jack 4-pin lock and ATX 2x2-Pin                                                |                      |
| Power type        | DC-IN 12Vdc or 19Vdc ~ 24Vdc                                                            |                      |

| Environment           |                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|
| Operating temperature | 0°C ~ 60°C (32°F ~ 140°F) standard<br>-20°C ~ 70°C (-4°F ~ 158°F) optional<br>-40°C ~ 70°C (-40°F ~ 158°F) optional |
| Storage temperature   | -40°C ~ 80°C (-40°F ~ 176°F)                                                                                        |
| Relative humidity     | 0% ~ 95% (non-condensing)                                                                                           |
| Form Factor           |                                                                                                                     |
| Dimensions (L x W)    | Intel® SKM / SDM Carrier Board<br>175mm x 88mm (6.89" x 3.46")                                                      |

## Rear I/O



## Dimensions



## Ordering Information

| Part Number    | Description                                                                                   |
|----------------|-----------------------------------------------------------------------------------------------|
| AEXP-SKM0-IOB0 | Expansionboard, Intel SKM, HDMI/cLVDS, SATA/6COM/UART/8USB/LAN, DC(12V, 19~24V)/DC-Jack(Lock) |
| AEXP-SKM0-IOB1 | Expansionboard, Intel SKM, HDMI, SATA/6COM/UART/8USB/LAN, DC(12V, 19~24V)/DC-Jack(Lock)       |
| AEXP-SDM0-IOB0 | Expansionboard, Intel SDM, HDMI/cLVDS, UART/4USB, DC(12V, 19~24V)/DC-Jack(Lock)               |
| AEXP-SDM0-IOB1 | Expansionboard, Intel SDM, HDMI, UART/4USB, DC(12V, 19~24V)/DC-Jack(Lock)                     |

## Optional Accessories

| Part Number  | Description                        |
|--------------|------------------------------------|
| 840612111202 | Power Adapter DC-Jack 12V/10A 120W |
| TBD          | Power Adapter DC-Jack 24V/5A 120W  |

## Assured Systems

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