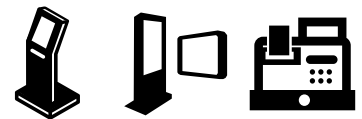
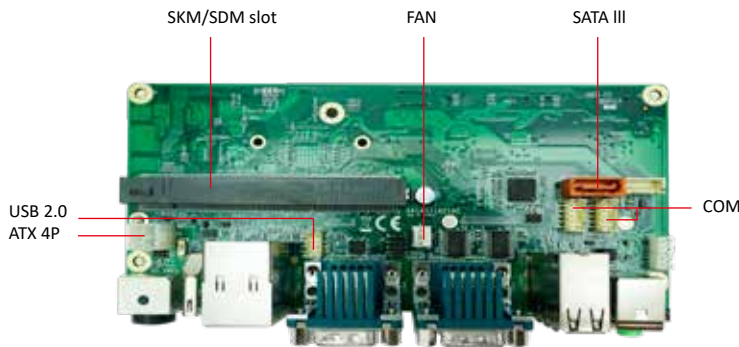


# AEXP-SKM0-IOB0

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

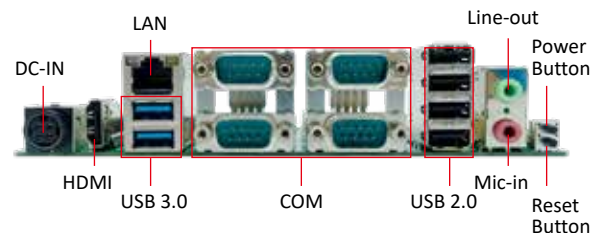
- Support Intel® SKM / SDM Module
- Multi-Display : HDMI / cLVDS 4K@60 (optional)
- Storage : 1 SATA III port and 1 M.2 M-key 2280 (SSD) slot
- Expansion slot : 2 Mini-PCIe (1 w/ uSIM) slots
- Int. I/O : 2 COM, FAN, GPIO (1 bit), GSPI, 2 I<sup>2</sup>C (Master/Slave), UART, 2 USB 2.0 ports
- Rear I/O : 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

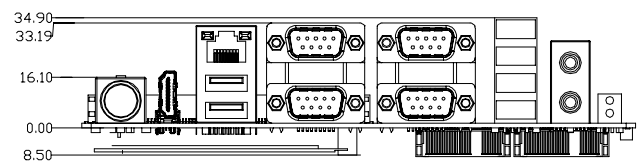
Module	
Intel® SKM	Intel® SKM 175mm x 140mm module
Intel® SDM	Intel® SDM-S 60mm x 100mm module Intel® SDM-L 175mm x 100mm module
Display	
Graphics	Please refer to Intel® SKM / SDM module
Display interface	1 x HDMI (HDMI ver. refer the SDM/SKM module) 1 x cLVDS (DP v1.2 to cLVDS, optional)
Multi-display	HDMI + cLVDS (optional)
Resolution	HDMI : (HDMI resolution refer to SDM/SKM module) 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 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 Tx/Rx, 2 x RS-232 (SKM only) 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) 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 -20°C ~ 70°C (-4°F ~ 158°F) optional -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 175mm x 88mm (6.89" x 3.46")

## Rear I/O



## Dimensions



## Ordering Information

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