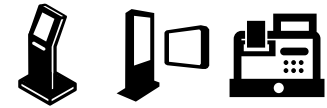
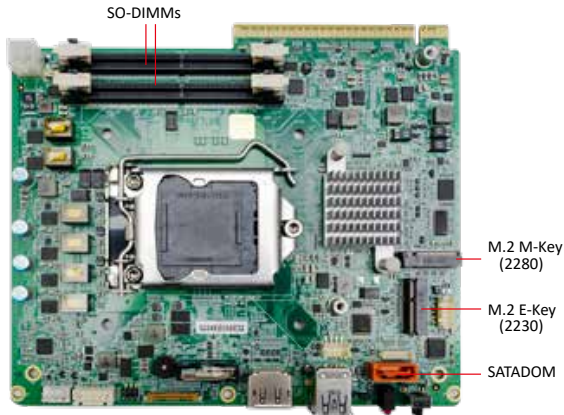


# ASKM-CFL3

Intel® Smart Kiosk Module (SKM) with Intel® 8th Gen Core™ i7/i5/ i3/ Celeron® Processors (Coffee Lake-S) with DP, SATADOM, 2 USB, M.2 E-key and M-key Slot.



SDM/SKM Module

## Key Features

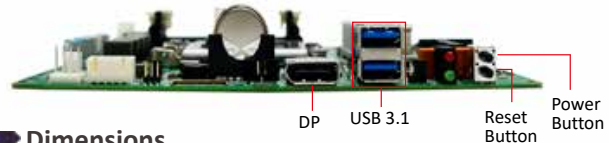
- Intel® Coffee Lake -S LGA1151 Socket Processor, Max. 65W TDPs with Intel® Q370 chipset
- Two 260-pin SO-DIMMs DDR4 up to 32GB 2666 MT/s SDRAM
- Multi-Display : HDMI (SKM G/F) / DP (SKM G/F) / DP
- 1 M.2 E-key 2230 (CNVi) and 1 M.2 M-key 2280 (NVMe) slots
- 1 SATA DOM and 2 USB 3.1 ports
- Support Intel AMT v12.0 and TPM v2.0 (optional)
- Intel® SKM Golden Finger (SKM G/F) : 2 Display (HDMI+DP), 3 USB2.0 and 2 USB3.1, 1 LAN (MDIx), 2 PCIE x1, 2 I<sup>2</sup>C, 1 UART, 1 GPIO (1 bit), 1 GSPi, 2 SATA, 1 Audio (Line-out/Mic-in), 1 LPC

## Product Specification

System Processor/Chipset	
Processor	Intel® 8th Gen Core™ i7/ i5/ i3/ Pentium®/ Celeron® (LGA1151) Processors (Max. 65W TDPs)
Chipset	Intel® Q370 PCH
BIOS	AMI® SPI Flash ROM
Memory	
Technology	DDR4 SDRAM up to 2666 MT/s (max.)
Max. capacity	Up to 32GB (2 x 16GB)
Socket	2 x 260-pin SO-DIMMs
Display	
Graphics	Intel® HD Gen 9-LP Graphics integrated
Display interface	1 x DP v1.2 (Rear I/O) 1 x DP v1.2 interface (SKM Gold Finger) 1 x HDMI v1.4 interface (SKM Gold Finger)
Multi-display	DP + DP (Gold Finger) + HDMI (Gold Finger) DP (Gold Finger) + HDMI (Gold Finger) DP + DP (Gold Finger) DP + HDMI (Gold Finger)
Resolution	DP v1.2 : 4096 x 2304 @ 60Hz (max.) HDMI v1.4 : 4096 x 2160 @ 30Hz (max.)
Ethernet	
Interface	10/100/1000 Mbps
Controller	Intel® I219LM Gigabit Ethernet PHY
Connector	1 x MDIx GbE interface (SKM gold finger)
Audio	
Interface	Line-out and Mic-in interface (SKM gold finger)
CODEC	Realtek® ALC662 HD
Expansion Slot	
M.2 (E-key)	1 x M.2 E-Key2230 (WiFi/BT), support Intel® CNVi 1 x M.2 M-Key2280 (SSD), support SATA/NVMe
M.2 (M-key)	N/A
Serial ATA	
Max. Data Rate	6.0GB/s
Port	1 x SATADOM (SATA III)
I/O	
USB	2 x USB 3.1 (Rear I/O)
Intel® SKM Gold Finger	
Audio	1 x Line-out and Mic-in interface
UART	1 x Tx and Rx 3.3V signal
Display	1 x DP v1.2 interface 1 x HDMI v1.4 interface
FAN	1 x System Fan on/off signal
GPIO	1 x 1-bit Programmable GPIO signal
GSPi	1 x General SPI interface
I <sup>2</sup> C	1 x I <sup>2</sup> C Master and 1 x I <sup>2</sup> C Slave interface
LAN	1 x MDIx GbE interface
LPC	1 x LPC interface

Management	Power Button / Reset Button / Power Good / SLP_S4 / SKM Detect signal
USB	2 x USB 3.0 interface, 3 x USB 2.0 interface
PCIe	2 x PCIe x1 interface
SATA	2 x SATA III interface
Power	12Vdc/9.9A and 3.3Vdc/1.1A
Safety	
TPM	Infineon® SLB9660 TPM v1.2 or SLB9665 TPM v2.0 (option)
Power Requirement	
Power connector	Intel® SKM gold finger
Power type	12Vdc/9.9A and 3.3Vdc/1.1A (total power up to 118W)
Power mode	AT/ATX (by jumper selection)
Watchdog Timer	
Interval	Programmable 1 ~ 255 sec/min
Output	System reset
Environment	
Operating temperature	0°C ~ 60°C (32°F ~ 140°F)
Storage temperature	-40°C ~ 80°C (-40°F ~ 176°F)
Relative humidity	0% ~ 95% (non-condensing)
Form Factor	
Dimensions (L x W)	Intel SKM 175mm x 140mm (6.89" x 5.51")

## Rear I/O



## Dimensions



## Ordering Information

Part Number	Description
ASKM-CFL0-Q370	SKM, Intel 8th Gen Q370, SATADOM/2USB, M2-E/M2-M, DC(12V)/ATX4P
ASKM-CFL0-Q370-BK	SKM, Intel 8th Gen Q370, SATADOM/2USB, M2-E/M2-M, DC(12V)/ATX4P, w/Cooler + I/O shield, Box

## Optional Accessories

Part Number	Description
TBD	I/O shield for ASKM-CFL3, Black
47380000104	Cooler w/FAN for Intel LGA1151, H=36.5mm

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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