



ECM-KBLH

7th Gen Intel®Core™ Processor i7/i5/i3
3.5" Micro Module with Intel® QM175 Chipset

- > Onboard 7th Gen Intel®Core™ i7/i5/i3 BGA Processor
- > One 260-pin DDR4 SODIMM Socket, Supports Up to 16GB DDR4 2400 SDRAM (only support non-ECC)
- > Dual-channel 18/24-bit LVDS,HDMI
- > Triple Display (LVDS, 2x HDMI)
- > 2 SATA III, 1 Mini PCIe, 4 USB 3.0, 1 M.2 (2242) B-Key, 2 USB 2.0, 2 COM, 8-bit GPIO
- > HD Audio, Dual Gigabit Ethernet
- > TPM 2.0/1.2 (Both optional)
- > iAMT 11

+ Spec

System	
Processor	7th Gen Intel® Core™ i7-7820EQ 4-Core 3.0GHz processor 7th Gen Intel® Core™ i5-7440EQ 4-Core 2.9GHz processor 7th Gen Intel® Core™ i3-7100E 2-Core 2.9GHz processor
System Chipset	Intel® QM175 Express Chipset
System Memory	1 x 260-Pin DDR4 2400MHz SO-DIMM up to 16 GB
I/O Chip	EC ITE IT8528E
BIOS	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec.
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion	
Expansion	1 x Mini PCIe Supports mSATA 1 x M.2 (2242)B-Key
Storage	
Storage	1 x mSATA Supported from Mini PCIe 1 x M.2 supports SATA or PCIe1/USB
I/O	
USB	2 x USB 2.0 4 x USB 3.0
SATA	2 x SATA III
COM Port	1 x RS-232/422/485 1 x RS-232
DIO	1 x 8bit GPIO
MIO	1 x LPC 1 x SPI
Display	
Chipset	Intel® Kaby lake SoC integrated Graphics Supports triple display
Resolution	HDMI: Max. resolution 4096x2160 @ 24Hz LVDS: Max. resolution 1920x1080 @ 60Hz LVDS + Dual HDMI Dual-channel 18/ 24-bit LVDS
Audio	
Chipset	Realtek ALC233 supports 2.1-CH
Audio Interface	Audio Amp.:2W
Ethernet	
Chipset	1 x Intel® I210AT 1 x Intel® I219LM
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Mechanical & Environmental	
Power Requirement	+12V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Type	AT/ATX
Operating Temp	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (L x W)	5.7" x 4" (146mm x 101mm)
Weight	0.44lbs (0.2kg)
Certifications	



Certification Information	CE FCC Class B
Software Support	
OS Information	Win 10 Linux

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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