



ECM-KBLU

7th Gen Intel® Kaby Lake-U Processor 3.5" Micro Module

- > Top Layer Soldered Processor
- > Single DRAM Socket, Max. Up to 16GB DDR4 2133MT/s
- > Triple Display (Dual HDMI, Dual-Ch 18/24-bit LVDS)
- > Dual Expansion Slot, M.2 Key-B, Full Size mCPLe
- > Dual Gigabit Ethernet, HD Audio Code
- > TPM 2.0

+ Spec

System Information	
Processor	7th Gen Intel® Core™ i7-7600U (2-Core, 2.8GHz processor) 7th Gen Intel® Core™ i5-7300U (2-Core, 2.6GHz processor) 7th Gen Intel® Core™ i3-7100U (2-Core, 2.4GHz processor) 7th Gen Intel® Celeron® 3965U (2-Core, 2.2GHz processor)
System Memory	1 x 260-Pin SO-DIMM Socket, Max. Up to 16 GB DDR4 2133MT/s
I/O Chipset	EC IT8528E
BIOS Information	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
Expansion	
Expansion	1 x Full Size mCPLe 1 x M.2 (Key-B, 2242/3042) with Micro SIM Card connector for 3G/4G
Storage	
Storage	1 x mSATA (Shared mCPLe) 1 x M.2 (Key-B, PCIe, USB) 1 x SATAIII
I/O	
USB Port	4 x USB 3.0 2 x USB 2.0
COM Port	1 x RS-232/422/485 5 x RS-232
SATA	1 x SATA III
DIO	1 x 8bit GPIO
MIO	1 x LPC 1 x SPI
Other	1 x SIM Card Slot
Display	
Graphic Chipset	Intel® HD Graphics 620 (i7-7600U, i5-7300U, i3-7100U) Intel® HD Graphics 610 (Celeron 3965U)
Spec. & Resolution	HDMI 1.4: Max. Resolution 4096x2160 @ 24Hz LVDS: Max. Resolution 1920x1080 @ 60Hz
Multiple Display	Triple Display
Audio	
Audio Codec	Realtek ALC888S, supports 5.1-CH
Audio Interface	1 x Mic-In 1 x Line-In 1 x Line-Out
Certifications	
Certification Information	CE FCC Class B
Ethernet	
LAN Chipset	1 x Intel® I211AT 1 x Intel® I219LM
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ45 with ACT/LINK and SPEED LEDs
Mechanical & Environmental	
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.44lb (0.2kg)
Vibration Test	1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/Axis, 3 Axis



Shock Test	10G, IEC 60068-2-27, Half Sine, 11ms, Z Axis
Drop Test	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
Power Requirement	+12V ~ +26V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI5.0 Compliant
Power Mode	AT/ATX
Dimension (L x W)	5.7" x 4" (146mm x 101mm)
Software Support	
OS Information	Win 10 Linux
Ordering Information	
Ordering Information	ECM-KBLU-7600-B1R 3.5" W/i7 7600U/6USB/6COM/2LAN/B1 ECM-KBLU-7300-B1R 3.5" W/i5 7300U/6USB/6COM/2LAN/B1 ECM-KBLU-7100-B1R 3.5" W/i3 7100U/6USB/6COM/2LAN/B1 ECM-KBLU-3965-B1R 3.5" W/3965U/6USB/6COM/2LAN/B1