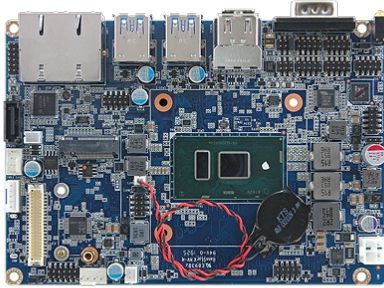




## ECM-KBLU

### 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 (optional)

**+** Spec

-System Information-	
<b>Processor</b>	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)
<b>System Memory</b>	1 x 260-Pin SO-DIMM Socket, Max. Up to 16 GB DDR4 2133MT/s
<b>I/O Chipset</b>	EC IT8528E
<b>BIOS Information</b>	AMI uEFI BIOS, 128Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
<b>H/W Status Monitor</b>	Monitoring CPU & System Temperature and Voltage
Expansion	
<b>Expansion</b>	1 x Full Size mPCle 1 x M.2 (Key-B, 2242/3042) with Micro SIM Card connector for 3G/4G
Storage	
<b>Storage</b>	1 x mSATA (Shared mPCle) 1 x M.2 (Key-B, PCle, USB) 1 x SATAIII
I/O	
<b>USB Port</b>	4 x USB 3.0 2 x USB 2.0
<b>COM Port</b>	1 x RS-232/422/485 5 x RS-232
<b>SATA</b>	1 x SATA III
<b>DIO</b>	1 x 8bit GPIO
<b>MIO</b>	1 x LPC 1 x SPI
<b>Other</b>	1 x SIM Card Slot
Display	
<b>Graphic Chipset</b>	Intel® HD Graphics 620 (i7-7600U, i5-7300U, i3-7100U) Intel® HD Graphics 610 (Celeron 3965U)
<b>Spec. &amp; Resolution</b>	HDMI 1.4: Max. Resolution 4096x2160 @ 24Hz LVDS: Max. Resolution 1920x1080 @ 60Hz
<b>Multiple Display</b>	Triple Display
Audio	
<b>Audio Codec</b>	Realtek ALC888S, supports 5.1-CH
<b>Audio Interface</b>	1 x Mic-In 1 x Line-In 1 x Line-Out
Certifications	
<b>Certification Information</b>	CE FCC Class B
Ethernet	
<b>LAN Chipset</b>	1 x Intel® I210AT 1 x Intel® I219LM
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ45 with ACT/LINK and SPEED LEDs
Mechanical & Environmental	
<b>Operating Temperature</b>	0°C ~ 60°C (32°F ~ 140°F)
<b>Storage Temperature</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Weight</b>	0.44lb (0.2kg)
<b>Vibration Test</b>	1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/Axis, 3 Axis



<b>Shock Test</b>	10G, IEC 60068-2-27, Half Sine, 11ms, Z Axis
<b>Drop Test</b>	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
<b>Power Requirement</b>	+12V ~ +24V
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
<b>Power Mode</b>	AT/ATX
<b>Dimension (L x W)</b>	5.7" x 4" (146mm x 101mm)
<b>Software Support</b>	
<b>OS Information</b>	Win 10 Linux
<b>Ordering Information</b>	
<b>Ordering Information</b>	ECM-KBLU-7600-B2R 3.5" W/i7 7600U/6USB/6COM/2LAN/B2  ECM-KBLU-7300-B2R 3.5" W/i5 7300U/6USB/6COM/2LAN/B2  ECM-KBLU-7100-B2R 3.5" W/i3 7100U/6USB/6COM/2LAN/B2  ECM-KBLU-3965-B2R 3.5" W/3965U/6USB/6COM/2LAN/B2