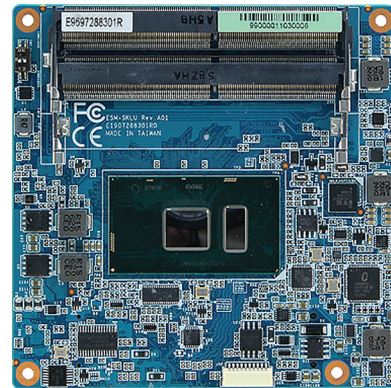


* This is an OEM Only Product

Features

- Onboard 7th Gen Intel® Core™ SoC ULT i7/i5/i3 BGA Processor
- Two 260pin SODIMM DDR4 2133 SDRAM Slot up to 32GB
- Support Dual Channel LVDS, DisplayPort (DP++), VGA/HDMI, optional eDP
- 3 SATA (6.0GB/s), 8 USB 2.0, 4 USB 3.0, 8-bit GPIO
- Intel 1219LM Gigabit Ethernet
- Type 6 Rev 2.1 Pin-out
- Supports Intel® iAMT 11.0, TPM 2.0 (Factory Optional), Turbo Boost Technology, vPro, Wake on LAN



Specifications

System	
CPU	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 Please note: CPU coolers are not included. Please see Ordering Info tab for more details.
System Memory	2 x 260-pin SO-DIMM DDR4 2133 SDRAM slot up to 32 GB
I/O Chip	EC ITE IT8528E
Audio	Intel® High Definition Audio
Ethernet	LAN1: Intel® i219LM Gigabit Ethernet Controller
BIOS	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Expansion	8 x PCIe x1 (it restricted to 5 devices due to LAN already count as one device)
Supported OS	Win 10
Display	
Graphics Engine	Intel® Kaby Lake Processor Integrated Graphics
Resolution	HDMI: Max. resolution 4096x2160 @ 24Hz LVDS: Max. resolution 1920x1200 @ 60Hz VGA: Max. resolution 1920x1200 @ 60Hz DP: Max. resolution 4096x2304 @ 60Hz
Multiple Display	LVDS (eDP) + VGA (HDMI) + DDI (HDMI or DP)
LCD Interface	CH7511B (eDP to LVDS)
DDI	HDMI, DVI, DisplayPort (supports DP++)
I/O	
USB	8 x USB 2.0, 4 x USB 3.0
SATA	3 x SATAIII
COM Port	2 x UART
DIO	1 x 8-bit GPIO
MIO	1 x LPC, 1 x I2C, 1 x SPI, 1 x SMBus

Mechanical & Environment	
Power Requirement	+9(-5%)- +19V(+5%), VSB: 5V(±5%)
Operating Temp	Single power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
Power Type	AT/ATX
Operating Temp	0°C ~ 60°C (32°F ~ 140°F) Extend: -20°C ~ 70°C (-4°F ~ 158°F) on request
Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Form Factor	Compact COM Express Module
Dimensions	3.7" x 3.7" (95mm x 95mm)
Certification Information	CE FCC Class B

Ordering Info	
ESM-KBLU-7600U	Intel® Core i7-7600U 2.8GHz Dual Core Type6 COMe Compact Module
ESM-KBLU-7300U	Intel® Core i5-7300U 2.6GHz Dual Core Type6 COMe Compact Module
ESM-KBLU-7100U	Intel® Core i3-7100U 2.4GHz Dual Core Type6 COMe Compact Module
ESM-KBLU-3965U	Intel® Celeron 3965U 2.2GHz Dual Core Type6 COMe Compact Module
EEV-EX14-A3R	mATX Ev. Board for COMe Type 6 A2
ACC-ESMSKLU-CL-1R	Cooler for ESM-SKLU & ESM-KBLU W/FAN H=50.5mm
ACC-ESMSKLU-SK-1R	Heatsink for ESM-SKLU & ESM-KBLU H=35.5mm
ACC-ESMSKLU-SD-1R	Heatspreader for ESM-SKLU/ESM-KBLU H=10.9mm

* All product specifications and images are subject to change without notice. Last update: 2021/02/12



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