



ESM-KBLU

7th Gen Intel® Core™ SoC ULT Processor i7/i5/i3 COMe Type6 Compact Module

- > 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, Display Port, VGA/HDMI, eDP Option
- > 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

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	2 x 260-pin SO-DIMM DDR4 2133 SDRAM slot up to 32 GB
I/O Chipset	EC ITE IT8528E
BIOS Information	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
Expansion	
Expansion	8 x PCIe1(it restricted to 5 devices due to LAN already count as one device)
I/O	
USB Port	8 x USB 2.0 4 x USB 3.0
COM Port	2 x UART
SATA	3 x SATAIII
DIO	1 x 8 bit GPIO
MIO	1 x LPC, 1 x I2C, 1 x SPI, 1 x SMBus
Display	
Graphic Chipset	Intel® Kaby Lake Processor integrated Graphics
Spec. & 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)
LVDS	CH7511B(eDP to LVDS)
DDI	HDMI DVI DisplayPort
Audio	
Audio Interface	Intel® High Definition Audio
Certifications	
Certification Information	CE / FCC Class B
Ethernet	
LAN Chipset	1 x Intel® I219LM
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
Mechanical & Environmental	
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F) Extend:-20°C ~ 70°C (-4°F ~ 158°F) on request
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Power Requirement	+9 (-5%)~ +19V (+5%), VSB: 5V(±5%)
ACPI	Single power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
Power Mode	AT/ATX
Dimension (L x W)	3.7" x 3.7" (95mm x 95mm)
Software Support	
OS Information	Win10
Ordering Information	
Ordering Information	ESM-KBLU-7600-A1R Intel® Core™ i7-7600U Type6 COMe Compact Module ESM-KBLU-7300-A1R Intel® Core™ i5-7300U Type6 COMe Compact Module ESM-KBLU-7100-A1R Intel® Core™ i3-7100U Type6 COMe Compact Module

EEV-EX14-B1R
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

www.avalue.com.tw

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.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660