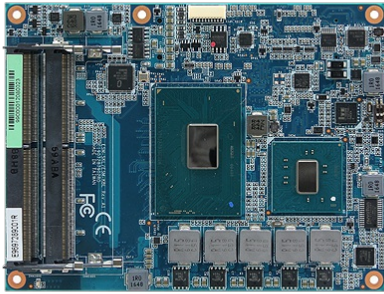




## ESM-KBLA

7th Gen Intel® Xeon™ Processors E3-15XX v6  
Series Type 6 COMe Basic Module with  
Intel®CM238 Chipset



- > Onboard 7th Gen Intel® Xeon™ E3-1500 series v6 Processor
- > Two 260-pin SODIMM DDR4 SDRAM slot up to 32GB, CM238 Support ECC Function
- > Dual-channel 18/24-bit LVDS, VGA, DP/HDM/DVI, eDP Option
- > Intel® I219LM Gigabit Ethernet
- > 8 PCIe x1, 1 PCIe x16, 4 SATA, 8 USB 2.0, 4 USB 3.0
- > HD Audio Interface
- > Type 6 Rev 2.1 Pin-out
- > TPM 2.0

**+** Spec

System	
<b>Processor</b>	Intel® Xeon® E3-1505M v6 4-Core 3GHz processor Intel® Xeon® E3-1505L v6 4-Core 2.2GHz processor
<b>System Chipset</b>	Intel® CM238 Express Chipset
<b>System Memory</b>	2 x 260-Pin DDR4 2400/2133MHz SO-DIMM up to 32 GB
<b>I/O Chip</b>	EC ITE IT8528E
<b>BIOS</b>	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Expansion	
<b>Expansion</b>	8 x PCIe1
I/O	
<b>USB</b>	8 x USB 2.0 4 x USB 3.0
<b>SATA</b>	4 x SATA III
<b>COM Port</b>	2 x UART
<b>DIO</b>	1 x 8bit GPIO
<b>MIO</b>	1 x SMBus 1 x LPC 1 x I2C
Display	
<b>Chipset</b>	Intel® Skylake SoC integrated Graphics
<b>Resolution</b>	VGA: Max. resolution 1920x1080 @ 60Hz LVDS: Max. resolution 1920x1080 @ 60Hz HDMI: Max. resolution 4096x2160 @ 24Hz HDMI Max resolution only one display output
<b>LVDS</b>	CH7511B(eDP to LVDS)
<b>Multiple Display</b>	(VGA+DP)+HDMI+DDI LVDS+(VGA+DP)+DDI LVDS+(VGA+DP)+HDMI LVDS+HDMI+DDI
<b>DDI</b>	HDMI DVI DisplayPort
Audio	
<b>Audio Interface</b>	Intel® High Definition Audio
Ethernet	
<b>Chipset</b>	1 x Intel® I219LM
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
Mechanical & Environmental	
<b>Power Requirement</b>	+9V ~ +19V
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI5.0 Compliant
<b>Power Type</b>	AT/ATX
<b>Operating Temp</b>	0°C ~ 60°C (32°F ~ 140°F) (Standard)
<b>Storage Temp</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Dimension (L x W)</b>	5" x 3.7" (125mm x 95mm)
<b>Weight</b>	0.44lbs(0.2kg)
Certifications	
<b>Certification Information</b>	CE FCC Class B
Software Support	



**OS Information**

Win 10  
WinCE: doesn't support  
Linux (Kernel>4.7) (64-bit)

**+ Ordering**

EEV-EX14-A3R  
mATX Ev. Board for COMe Type 6 A2

ESM-KBLA-05M-A1R  
Intel® Xeon® E3-1505M v6 Type6 Basic Size COM Express Module

ESM-KBLA-05L-A1R  
Intel® Xeon® E3-1505L v6 Type6 Basic Size COM Express Module