



## ESM-BYT

### Intel® Celeron®/Atom™ SoC Processor J1900/E3845 Type6 COMe Basic Module

- > Onboard Intel® Celeron®/Atom™ SoC J1900/E3845 BGA Processor
- > Two 204-pin DDR3L SODIMM Up to 8GB DDR3L 1066/1333 SDRAM
- > Support Dual-channel 18/24-bit LVDS, Display Port, HDMI, DVI, VGA, eDP (Option)
- > Intel® I211AT Gigabit Ethernet
- > 2 SATA II, 7 USB 2.0, 1 USB 3.0, 8-bit GPIO
- > HD Audio Interface
- > +9 ~ +19V Wide Range Power Input
- > Type 6 Pin-out
- > Extended Temperature: -40 ~ +85°C

**+** Spec

System	
<b>Processor</b>	Intel® Celeron® J1900 4-Core 2.0GHz processor Intel® Atom™ E3845 4-Core 1.91GHz processor Intel® Atom™ E3825 2-Core 1.33GHz processor
<b>System Memory</b>	2 x 204-Pin DDR3L 1066MHz SO-DIMM (for Bay trail-I E3826/E3825/E3815) up to 8 GB or 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB Processor E3845 & J1900 only support 1333MHz
<b>I/O Chip</b>	EC ITE IT8518E
<b>BIOS</b>	AMI uEFI BIOS, 64Mbit SPI Flash ROM
Expansion	
<b>Expansion</b>	3 x PCIe x1
I/O	
<b>USB</b>	7 x USB 2.0 1 x USB 3.0
<b>SATA</b>	2 x SATA II
<b>COM Port</b>	1 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® Valleyview SoC integrated Graphics
<b>Resolution</b>	VGA: Max. resolution 2560x1080@ 60Hz LVDS: Max. resolution 1920x1080@ 60Hz DP: Max. resolution 2560x1600@ 60Hz
<b>LVDS</b>	CH7511B (eDP to LVDS)
<b>DDI</b>	HDMI DVI DisplayPort
Audio	
<b>Chipset</b>	Intel® Valleyview SoC integrated
<b>Audio Interface</b>	Intel® High Definition Audio
Ethernet	
<b>Chipset</b>	1 x Intel® I211AT
<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 ACPI 3.0 Compliant
<b>Power Type</b>	AT/ATX
<b>Operating Temp</b>	0°C ~ 60°C (32°F ~ 140°F) (Standard) -40°C ~ 85°C (-40°F ~ 185°F) (Extended)
<b>Storage Temp</b>	-40°C ~ 85°C (-40°F ~ 185°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Dimension (L x W)</b>	5" x 3.7" (125mm x 95mm)
Certifications	
<b>Certification Information</b>	CE FCC Class B
Software Support	



**OS Information**

Win 8  
Win 7  
Linux  
Android

**+ Ordering**

EEV-EX14-A2R  
mATX Ev. Board for COMe Type 6 A1.1

ESM-BYT-E3845-A1R  
SOM-COMe W/E3845 BGA A1

ESM-BYT-E3825-A1R  
SOM-COMe W/E3825 BGA A1

ESM-BYT-J1900-A1R  
SOM-COMe W/J1900 BGA A1

EEV-EX62-A1R  
COMe Type 6 to Type 2 Adapter