



ESM-BYT2

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

- > Onboard Intel® Celeron®/Atom™ SoC J1900/E3845 BGA Processor
- > One 204-pin DDR3L SODIMM Up to 4GB 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	
Processor	Intel® Celeron® J1900 4-Core 2.0GHz processor Intel® Atom™ E3845 4-Core 1.91GHz processor Intel® Atom™ E3825 2-Core 1.33GHz processor
System Memory	2 x 204-Pin DDR3L 1066MHz SO-DIMM up to 4 GB or 204-Pin DDR3L 1333MHz SO-DIMM up to 4 GB Processor E3845 & J1900 only support 1333MHz
BIOS	AMI uEFI BIOS, 64Mbit SPI Flash ROM
Expansion	
Expansion	3 x PCIe x1
I/O	
USB	7 x USB 2.0 1 x USB 3.0
SATA	2 x SATA II
COM Port	2 x UART
DIO	1 x 8bit GPIO
MIO	1 x SMBus 1 x LPC 1 x I2C
Display	
Chipset	Intel® Valleyview SoC integrated Graphics
Resolution	VGA: Max. resolution 2560x1080@ 60Hz LVDS: Max. resolution 1920x1080@ 60Hz DP: Max. resolution 2560x1080@ 60Hz
LVDS	CH7511B (eDP to LVDS)
Multiple Display	VGA+LVDS
DDI	HDMI DVI DisplayPort
Audio	
Chipset	Intel® Valleyview SoC integrated
Audio Interface	Intel® High Definition Audio
Ethernet	
Chipset	1 x Intel® I211AT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
Mechanical & Environmental	
Power Requirement	+9V ~ +19V
ACPI	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) (Standard) -40°C ~ 85°C (-40°F ~ 185°F) (Extended)
Storage Temp	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (L x W)	3.7" x 3.7" (95mm x 95mm)
Certifications	
Certification Information	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-BYT2-E3845-A1R
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ESM-BYT2-E3825-A1R
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ESM-BYT2-J1900-A1R
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