



## ECM-BYT

Intel® Celeron®/Atom™ SoC Processors  
J1900/E3845 3.5" Micro Module

- > Onboard Intel® Celeron®/Atom™ SoC J1900/E3845 BGA Processor
- > One 204-pin DDR3L SODIMM Socket Supports Up to 8GB DDR3L 1066/ 1333 SDRAM
- > Dual View, 2-CH LVDS, CRT, HDMI
- > 2 x Gigabit Ethernet
- > HD Audio/ Fanless Operation
- > 1 CF, 1 SATA II, 1 Mini-PCle, 1 USB 3.0, 5 USB 2.0, 4 COM, 8-bit GPIO

**Spec**

System	
<b>Processor</b>	Intel® Atom™ E3845 4-Core 1.91GHz processor Intel® Celeron® J1900 4-Core 2.0GHz processor
<b>System Memory</b>	1 x 204-Pin DDR3L 1066MHz SO-DIMM up to 8 GB or 1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB Processor E3845 & J1900 only support 1333MHz
<b>I/O Chip</b>	EC ITE IT8528E
<b>BIOS</b>	AMI uEFI BIOS, 64Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
<b>H/W Status Monitor</b>	Monitoring SYSTEM Temperature, Voltage and FAN Status with Auto Throttling Control
Expansion	
<b>Expansion</b>	1 x Mini PCIe Supports mSATA
Storage	
<b>Storage</b>	1 x CompactFlash Type III Socket
Touch Screen	
<b>Built-in Touch controller(optional)</b>	Chipset:PenMount 6000 Touch Screen Interface:With 5-pin 2.0mm Box Header (Can be Selected to Support 4/ 5Wire Touch Screen)
I/O	
<b>USB</b>	5 x USB 2.0 1 x USB 3.0
<b>SATA</b>	1 x SATA II
<b>COM Port</b>	1 x RS-232/422/485 3 x RS-232
<b>DIO</b>	1 x 8bit GPIO
<b>MIO</b>	1 x LPC 1 x PS2/ KB & MS
Display	
<b>Chipset</b>	Intel® Valleyview SoC integrated Graphics Supports dual display
<b>Resolution</b>	VGA:Max. resolution 2560x1080@ 60Hz HDMI:Max. resolution 1920x1200@ 60Hz LVDS:Max. resolution 1920x1080@ 60Hz CRT + LVDS, HDMI + LVDS, CRT + HDMI Dual-channel 18/ 24-bit LVDS
Audio	
<b>Chipset</b>	Realtek ALC892 Support 5.1-CH
<b>Audio Interface</b>	Mic-In, Line-In and Line-Out
Ethernet	
<b>Chipset</b>	2 x Intel® I211AT
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ-45
Mechanical & Environmental	
<b>Power Requirement</b>	+12V ~ +26V
<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) -40°C ~ 85°C (-40°F ~ 185°F) (Optional for Wide Temperature Model)
<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>	5.7" x 4" (146mm x 101mm)
<b>Weight</b>	0.44lbs (0.2kg)
<b>Certifications</b>	
<b>Certification Information</b>	CE FCC Class B
<b>Software Support</b>	
<b>OS Information</b>	Win 10 Win 8 Win 7 Linux

**+ Ordering**

ECM-BYT-E3845-A2R  
ECM-BYT W/E3845 D1/1SATA/4COM/A2

ECM-BYT-J1900-A2R  
ECM-BYT W/J1900 D1/1SATA/4COM/A2

ECM-BYT-E3845W-A2R (Wide temp.-40→+85C)  
ECM-BYT W/E3845 D1/4COM/WT/A2

## 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.

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