



EMS-BYT-DVI

Intel® Celeron®/Atom™ SoC Processor
J1900/E3845 Fanless Rugged Embedded System
with DVI

- > Onboard Intel® Celeron®/Atom™ J1900/E3845 BGA Processor
- > One 204-pin SODIMM Socket Up to 8GB DDR3L 1333MHz SDRAM
- > Rich I/O, 1 VGA, 1 DVI, 1 LAN, 1 SIM Card Slot, 1 Swappable HDD, 1 Mic-In, 1 Line-In, 1 Line-Out, 1 12-bit GPIO, 1 SMBUS, 2 COM, 2 PS/2 for KB & MS, 2 Knockouts Antenna Mounting, 5 USB
- > Dual Display, VGA + DVI
- > Expansion Slot Supports 2 Mini PCIe Slot
- > Rugged Design for Vibration & Shock Protection
- > Fanless Operating from -15 ~ 60°C & -40 ~ 75°C
- > Wide Range DC Power Input from 12 ~ 26V
- > Service Window. Easy to Install mSATA, Memory and Mini

+ Spec

System	
Processor	Intel® Celeron® J1900 4-Core 2.0GHz processor Intel® Atom™ E3845 4-Core 1.91GHz processor
System Memory	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec.
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
Board	EBM-BYTS + EBM-CDVS DB-A
Expansion	
Expansion	2 x Mini PCIe
Storage	
Storage	1 x 2.5" Drive Bay 1 x mSATA
I/O	
USB	4 x USB 2.0 1 x USB 3.0
COM Port	2 x RS-232/422/485 (BIOS)
Other	1 x SIM Card Slot 1 x SMBus 2 x PS/2/ KB & MS 2 x Knockouts for Antenna Mounting
DIO	1 x 12bit GPIO
Display	
Chipset	Intel® Valleyview SoC integrated Graphics Supports dual display
Resolution	VGA:Max. resolution 2560x1080@ 60Hz DVI-D:Max. resolution 1920x1200@ 60Hz
Audio	
Chipset	Realtek ALC892
Audio Interface	Mic-In, Line-In and Line-Out
Ethernet	
Chipset	1 x Intel® I211AT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	1 x RJ-45
Mechanical & Environmental	
Operating Temp	(w/SSD, mSATA), ambient w/ air flow -15°C ~ 60°C (5°F ~ 140°F) (w/HDD), ambient w/ air flow 0°C ~ 45°C (32°F ~ 113°F) For Valleyview I SoC (w/SSD, mSATA), ambient w/ air flow -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Construction	Aluminum + Metal + Plastic
Mounting Kit	Wall Mount kit (Standard) VESA Mount kit (Optional)
Dimension (L x W x H)	9.45" x 6.69" x 2.36" (240mm x 170mm x 60mm)
Vibration Test	With SSD/mSATA : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
Shock Test	With SSD/mSATA : 50Grms, IEC 60068-2-27, Half Sine, 11ms
Certifications	
Certification Information	CE FCC Class B
Software Support	



OS Information	Win 7 Win 8 Linux
Power Requirement	
Power Connector	Lockable DC Jack
Power Requirement	+12V ~ +26V TVS component for surge protection Reverse current/voltage protection
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Adapter	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter

+ Ordering

EMS-BYT-1900-A1-7R
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EMS-BYT-3845-A1-7R
Intel® Atom™ SoC Processor E3845 Fanless Rugged Embedded System with DVI