



EMS-BYT

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



- > 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 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, 3 USB
- > Expansion Slot Supports 2 Mini PCIe Slot & IET Interface
- > Front Access Swappable 2.5" Drive Bay, SIM Card
- > 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 PCIe Module

+ 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 |
| Expansion | |
| Expansion | 1 x Avalue 80-Pin IET Interface 2 x Mini PCIe |
| Storage | |
| Storage | 1 x 2.5" Drive Bay 1 x mSATA |
| I/O | |
| USB | 1 x USB 3.0 2 x USB 2.0 |
| COM Port | 2 x RS-232/422/485 (BIOS) |
| DIO | 1 x 12bit GPIO |
| Other | 1 x SIM Card Slot 1 x SMBus 2 x PS/2/ KB & MS 2 x Knockouts for Antenna Mounting |
| Display | |
| Chipset | Intel® Valleyview SoC integrated Graphics |
| Resolution | VGA:Max. resolution 2560x1080 @ 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 1.77" (240mm x 170mm x 45mm) |
| 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-A1-1R
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