



## EPS-BYT-PCI

Intel® Celeron® SoC Processor J1900 Fanless Rugged Embedded System with 2 expansion slots

- > Onboard Intel® Celeron® J1900 BGA Processor
- > One 204-pin SODIMM Socket Up to 8GB DDR3L 1066/1333MHz SDRAM
- > Rich I/O, 1 VGA, 1 LAN, 1 Min-In, 1 Line-In, 1 Line-Out, 1 12-bit GPIO, 1 SMBUS, 6 COM, 2 PS/2 for KB & MS, 2 Knockouts Antenna Mounting, 4 USB
- > Expansion Slot Supports 1 Mini PCIe Slot & 2 PCI Slot
- > IET Expansion Supports Multi-COM, Multi-LAN Modules
- > Rugged Design for Vibration & Shock Protection
- > Fanless Operating from -15 ~ 60°C
- > Wide Range DC Power Input from 12 ~ 26V
- > Service Window, Easy to Install SIM Card, Storage, Memory, Mini PCIe Module and PCI Card

### + Spec

| System                           |  |
|----------------------------------|--|
| <b>Processor</b>                 | Intel® Celeron® J1900 4-Core 2.0GHz processor  |
| <b>System Memory</b>             | 1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB   |
| <b>Watchdog Timer</b>            | H/W Reset, 1sec. ~ 65535sec.   |
| <b>H/W Status Monitor</b>        | Monitoring CPU & System Temperature and Voltage  |
| <b>Board</b>                     | EBM-BYTS + AUX-M01/AUX-M02 + AUX-M05 + AUX-M06   |
| Expansion                        |  |
| <b>Expansion</b>                 | 1 x Mini PCIe<br>2 x PCI   |
| Storage                          |  |
| <b>Storage</b>                   | 1 x 2.5" Drive Bay<br>1 x mSATA  |
| I/O                              |  |
| <b>USB</b>                       | 4 x USB 2.0  |
| <b>COM Port</b>                  | 6 x RS-232/422/485<br>Can be set as RS-232/422/485 by BIOS                               |
| <b>Other</b>                     | 1 x SIM Card Slot<br>1 x SMBus<br>2 x PS2/ KB & MS<br>2 x Knockouts for Antenna Mounting |
| Display                          |  |
| <b>Chipset</b>                   | Intel® Valleyview SoC integrated Graphics  |
| <b>Resolution</b>                | VGA:Max. resolution 2560x1080@ 60Hz  |
| Audio                            |  |
| <b>Chipset</b>                   | Realtek ALC892   |
| <b>Audio Interface</b>           | Mic-In, Line-In and Line-Out   |
| Ethernet                         |  |
| <b>Chipset</b>                   | 1 x Intel® I211AT  |
| <b>Ethernet Interface</b>        | 10/100/1000 Base-Tx GbE compatible   |
| <b>LAN Port</b>                  | 1 x RJ-45  |
| Mechanical & Environmental       |  |
| <b>Operating Temp</b>            | (w/SSD, mSATA), ambient w/ air flow<br>-15°C ~ 60°C (5°F ~ 140°F)                        |
| <b>Storage Temp</b>              | -40°C ~ 75°C (-40°F ~ 167°F)   |
| <b>Operating Humidity</b>        | 0% ~ 90% Relative Humidity, Non-condensing   |
| <b>Construction</b>              | Aluminum + Metal   |
| <b>Mounting Kit</b>              | Wall Mount kit (Standard)  |
| <b>Dimension (L x W x H)</b>     | 8.66" x 8.46" x 5.79" (220mm x 215mm x 147mm)  |
| <b>Vibration Test</b>            | With SSD/mSATA : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis                      |
| <b>Shock Test</b>                | With SSD/mSATA : 50Grms, IEC 60068-2-27, Half Sine, 11ms                                 |
| Certifications                   |  |
| <b>Certification Information</b> | CE<br>FCC Class B  |
| Software Support                 |  |
| <b>OS Information</b>            | Win 8<br>Win 7<br>Linux  |
| Power Requirement                |  |
| <b>Power Connector</b>           | Lockable DC Jack   |
| <b>Power Requirement</b>         | +12V ~ +26V<br>TVS component for surge protection Reverse current/voltage protection     |



|                   |   |
|-------------------|---|
| <b>ACPI</b>       | Single Power ATX Support S0, S3, S4, S5<br>ACPI 5.0 Compliant                       |
| <b>Power Mode</b> | AT/ATX (ATX is default setting)   |
| <b>Adapter</b>    | Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter |

**+ Ordering**

EPS-BYT-1900-A1-1R (w/ AUX-M01)  
Intel® Celeron® SoC Processor J1900 Fanless Rugged Embedded System with 6 COMs

EPS-BYT-1900-A1-2R (w/ AUX-M02)  
Intel® Celeron® SoC Processor J1900 Fanless Rugged Embedded System with LAN Bypass