



ERS-BYT

Intel® Celeron® SoC Processor J1900 Fanless Rugged Embedded System

- > Onboard Intel® Celeron® J1900 BGA Processor
- > One 204-pin SODIMM Socket Up to 8GB DDR3L 1333MHz SDRAM
- > Rich I/O, 1 VGA, 1 HDMI, 1 CF, 1 8-bit GPIO, 1 Mic-In, 1 Line-In, 1 Line-Out, 2 LAN, 4 COM, 4 USB
- > Expansion Slot Supports 1 Mini PCIe Slot
- > Front Access Swappable 2.5" Drive Bay
- > Rugged Design for Vibration & Shock Protection
- > Fanless Operating from -10 ~ 60°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
System Memory	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB
Watchdog Timer	H/W Reset: 1sec. ~ 65535sec./min.
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
Board	ECM-BYT + AUX-032
Expansion	
Expansion	1 x Mini PCIe
Storage	
Storage	1 x CompactFlash Type I/II Socket 1 x mSATA 1 x 2.5" Drive Bay
I/O	
USB	3 x USB 2.0 1 x USB 3.0
Com Port	3 x RS-232 1 x RS-232/422/485 Can be set as RS-232/422/485 by BIOS
Other DIO	2 x Knockouts for Antenna Mounting 1 x 8bit GPIO
Display	
Chipset	Intel® Valleyview SoC integrated Graphics
Resolution	VGA: Max. resolution 2560x1080@ 60Hz HDMI: Max. resolution 1920x1200@ 60Hz
Audio	
Chipset	Realtek ALC892 supports 5.1-CH
Audio Interface	Mic-In, Line-In and Line-Out
Ethernet	
Chipset	2 x Intel® I211AT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
Lan Port	2 x RJ-45
Mechanical & Environmental	
Operating Temp	(w/SSD, mSATA, CF), ambient w/ air flow -10°C ~ 60°C (14°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
Mounting Kit	Wall Mount kit (Standard)
Dimension (L x W x H)	10.67" x 5.91" x 2.17" (271mm x 150mm x 55mm)
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 A
Software Support	
OS Information	Win 7 Win 8 Linux
Power Requirement	



Power Connector	Lockable DC Jack
Power Requirement	+12V ~ +26V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 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

ERS-BYT-1900-A1-1R

Intel® Celeron® SoC Processor J1900 Fanless Rugged Embedded System