



EMX-BYT2

Intel® Celeron® J1900 Processor Thin Mini ITX Motherboard

- > Intel® Celeron® J1900 Processor (2M Cache, Up to 2.42 GHz)
- > 2 x 204-pin DDR3L 1333 MHz SO-DIMM supports up to 8GB
- > VGA, HDMI, 2CH LVDS or eDP
- > 2 x Intel® i210AT Gigabit Ethernet
- > Realtek ALC888S Audio Codec
- > Realtek ALC105 Stereo Class-D 2W 4Ω x 2
- > 1 x Mini PCI-e Supported mSATA, 1 x Mini PCI-e, 1 x PCI-e
- > 2 x SATA II, 2 x SATA Power, 2 x USB 2.0, 4 x USB 3.0
- > 5 x RS232, 1 x RS232/422/485, 8-bit GPIO
- > Mic-in, Line-out, 1 S/PIDF, Optional Infineon SLB9665 TPM 2.0
- > Onboard eMMC (Optional 32GB)
- > DC in +12V

+ Spec

-System Information-	
Processor	Intel® Celeron® J1900 Processor (2M Cache, Up to 2.42 GHz)
System Memory	2 x 204-pin DDR3L 1333 MHz SO-DIMM supports up to 8GB
I/O Chipset	EC iTE IT8528E
BIOS Information	AMI 64Mbit SPI BIOS
Watchdog Timer	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion	
Expansion	1 x PCI-e 1 x Mini PCI-e Supports mSATA (Switch Through Jumper) 1 x Mini PCI-e 1 x SD card slot supports SD/ SDHC Card 1 x SIM card slot
I/O	
USB Port	2 x USB 2.0 4 x USB 3.0
COM Port	5 x RS232 1 x RS232/422/485
SATA	2 x SATA Power 2 x SATA II
DIO	1 x 8-bit GPIO
Other	1 x S/PIDF
Display	
Graphic Chipset	Intel® Celeron® SoC integrated Graphics
Spec. & Resolution	VGA: 2560 x 1600 @ 60Hz HDMI: 1920 x 1200 @ 60Hz LVDS or eDP: 1920 x 1080 @ 60Hz HDMI +LVDS or eDP, HDMI+VGA, VGA+LVDS or eDP
Multiple Display	Dual Display Dual channel 18/24-bits LVDS (Chrontel CH7513A-BF eDP to LVDS) Or 1 x eDP 1920 x 1080@60Hz (2 Lanes)
LVDS	LVDS: 1920 x 1080@60Hz
Audio	
Audio Codec	Realtek ALC888S HD Audio Codec
Audio Interface	Mic-in, Line-out
Audio Amplifier	Realtek ALC105 Stereo Class-D 2W 4Ω x 2
Ethernet	
LAN Chipset	2 x Intel I210AT (Co-lay i211AT) Gigabit Ethernet. (Default: I210AT)
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ45
Mechanical & Environmental	
Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.88lbs (0.4Kgs)
Power Requirement	+12V
Power Mode	AT/ATX
Dimension (L x W)	6.69" x 6.69" (170mm x 170mm)
Ordering Information	
Ordering Information	EMX-BYT2-B1R Intel® Celeron® J1900 Processor Thin Mini ITX Motherboard