

# EC3-1820 3.5" SBC with Intel® BayTrail

## Brief Introduction

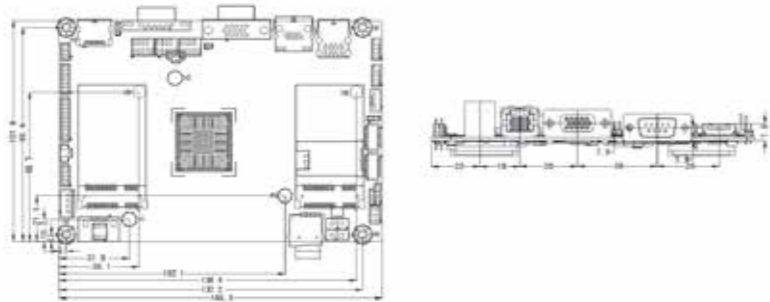
EC3-1820 is a 3.5-inch motherboard based on Intel® new-generation Atom Bay Trail SoC platform. Its CPU is Future Intel® Celeron® processor for Intelligent Systems (Based on 22nm Intel® Silvermont microarchitecture), clock frequency Quad-core 1.91GHz, Dual-core 1.33GHz and Quad-core 2.00GHz. Its graphics core integrates INTEL 7th generation graphics engine, with two display tubes, supporting DX11 and 3D output. EC3-1820 has multiple types of interfaces, and can be widely used in military industry, automation, electric power, and etc.



## Features

- Onboard Intel® BayTrail E3845/ E3825/J1900 CPU
- Onboard 4GB DDR3L
- Support VGA+HDMI+LVDS
- Support SATA, mSATA and SD card slot
- Support Mini PCIE with SIM card holder
- Support -40~85°C

## Product size chart



( Company : MM )

## Specifications

Items	Specification
Chipset	Intel® BayTrail
CPU	Intel® E3845 1.91GHz, E3825 1.33GHz, J1900 2.0GHz
Memory	Onboard 4GB DDR3L
Storage	1 x SATA 2.0, 1 x mSATA, 1 x SD card slot (J1900 doesn't support SD)
LAN	1 x 10/100/1000 Mbps RJ45 1 x 10/100/1000 Mbps PIN header
I/O	1 x VGA, 1 x HDMI, 1 x LVDS Support dual independent display
	1 x USB 3.0, 5 x USB 2.0
	4 x Serial ports, 2 support RS232, 2 support RS232/422/485
	Audio, support Mic-in, Line-in, Line-out
	1 x PS/2
Expansion	1 x 16ch GPIO
	1 x Mini PCIE with SIM card holder
Watchdog Timer	1 ~ 255sec/min timer system reset or interrupt
Power Supply	DC 12V
Operating System	DC 12V Win10, Win8, Win7, Win7E, Linux
Environment	Operating temperature: 0 ~ 60°C Optional -40~85°C Storage temperature: -40 ~ 85°C Humidity: 5% ~ 95% Non-condensing
Dimensions(L x W)	146.1mm x 101.6mm

## Ordering Information

P/N	Model	Description
0030-021411	EC3-1820V2NA(B)-E3845	3.5"/Intel® E3845/Onboard 4GB DDR3L/SATA/mSATA/SD/VGA+HDMI+LVDS/2 x LAN/6 x USB/4 x COM/16ch GPIO/Audio/PS/2/Mini PCIE/SIM card slot/0 ~ 60°C
0030-022131	EC3-1820V2NA(B)-E3845 -40~85°C	3.5"/Intel® E3845/Onboard 4GB DDR3L/SATA/mSATA/SD/VGA+HDMI+LVDS/2 x LAN/6 x USB/4 x COM/16ch GPIO/Audio/PS/2/Mini PCIE/SIM card slot/-40 ~ 85°C
0030-21421	EC3-1820V2NA(B)-E3825	3.5"/Intel® E3825/Onboard 4GB DDR3L/SATA/mSATA/SD/VGA+HDMI+LVDS/2 x LAN/6 x USB/4 x COM/16ch GPIO/Audio/PS/2/Mini PCIE/SIM card slot/0 ~ 60°C
0030-022161	EC3-1820V2NA(B)-E3825 -40~85°C	3.5"/Intel® E3825/Onboard 4GB DDR3L/SATA/mSATA/SD/VGA+HDMI+LVDS/2 x LAN/6 x USB/4 x COM/16ch GPIO/Audio/PS/2/Mini PCIE/SIM card slot/-40 ~ 85°C
0030-021721	EC3-1820V2NA(B)-J1900	3.5"/Intel® J1900/Onboard 4GB DDR3L/SATA/mSATA/VGA+HDMI+LVDS/2 x LAN/6 x USB/4 x COM/16ch GPIO/Audio/PS/2/Mini PCIE/SIM card slot/0 ~ 60°C