



EC3-1821

3.5" SBC with Intel Skylake-U CPU

- Onboard Intel Core i3-6100U/i5-6300U/i7-6600U, Intel Celeron 3955U
- 1 x DDR4 1866/2133MHz U-DIMM slot, up to 16GB
- Onboard Mini PCIe/ mSATA/SIM card slot
- Support VGA/HDMI/LVDS/DVI-D(optional) display
- 1 x custom expansion slot (expandable to 1 x DDI, 4 x PCIE, 2 x USB2.0, Poweron, LPC, Smbus, ect)
- Powered by DC 12V



Main Board Specifications

Processor	Onboard Intel Core i7-6600U 2.6GHz/i5-6300U 2.4GHz/i3-6100U 2.3GHz, Intel Celeron 3955U 2.0GHz
Chipset	Skylake-U
Memory	1 x DDR4 1866/2133MHz U-DIMM slot, up to 16GB
Display	1 x VGA, 1 x HDMI, 1 x LVDS, 1 x DVI-D (optional)
Audio	HDA
Lan	2 x 10/100/1000Mbps Lan ports
Storage	2 x SATA3.0 ports
I/O Interface	4 x USB2.0, 2 x USB3.0, 2 x COM, 8bit GPIO
Expansion Interface	SPI, I2C, SMBUS, LPC Bus, ect. 1 x Mini-PCIe slot (support expanding 3G/4G/wifi module) 1 x mSATA slot 1 x SIM Card slot 1 x custom expansion slot (expandable to 1 x DDI, 4 x PCIE, 2 x USB2.0, Poweron, LPC, Smbus, ect)
Operating Temperature	0℃～60℃(extendable to -40℃～85℃); 5%～95% (non-condensing)
Storage Temperature	-40℃～85℃, 5%～95% (non-condensing)
Watchdog Timer	255 levels, programmable by second/minute, timeout interrupt or system reset.
Power Supply	12V only DC input
Dimensions	146.1(mm) x 101.6(mm) x 24.7(mm)

Expansion Board

Connection Port	Customed expansion port
Display	DVI-D (can't drive with VGA simultaneously)
LAN	4 x Gbe (2 onboard, 2 wafer)
I/O interface	2 x USB3.0 ports, 4 x COM, 1 x 8bit GPIO
Lan	2 x 10/100/1000Mbps Lan ports
Power supply	Support DC power supply (phoenix connector)
Dimension	146 * 101mm

Dimension

Unit:mm

Ordering Information

Part Number	Model Number	Description
0030-022211	EC3-1821-3955U	3.5" SBC/Onboard Intel Celeron 3955U 2.0GHz/1 x DDR4 U-DIMM slot /1 x VGA /1 x HDMI/1 x LVDS/2 x Gbe/1 x HDA/4 x USB3.0/2 x USB2.0/2 x SATA3.0/1 x M-SATA /1 x Mini-PCle(support 3G,4G,Wifi)/2 x COM
0030-022151	EC3-1821-I36100U	3.5"SBC/Onboard Intel Core I3-6100U 2.3GHz/1 x DDR4 U-DIMM slot/1 x VGA /1 x HDMI/1 x LVDS/2 x Gbe/1 x HDA/4 x USB3.0/2 x USB2.0/2 x SATA3.0/1 x M-SATA /1 x Mini-PCle(support 3G,4G,wifi)/2 x COM/ 1 x Custom Expansion slot
0030-022221	EC3-1821-I56300U	3.5"SBC/Onboard Intel Core I5-6300U 2.4GHz/1 x DDR4 U-DIMM slot/1 x VGA /1 x HDMI/1 x LVDS/2 x Gbe/1 x HDA/4 x USB3.0/2 x USB2.0/2 x SATA3.0/1 x M-SATA /1 x Mini-PCle(support 3G,4G,wifi)/2 x COM/ 1 x Custom Expansion slot
0030-022231	EC3-1821-I76600U	3.5"SBC/Onboard Intel Core I7-6600U 2.6GHz/1 x DDR4 U-DIMM slot/1 x VGA /1 x HDMI/1 x LVDS/2 x Gbe/1 x HDA/4 x USB3.0/2 x SATA3.0/1 x M-SATA /1 x Mini-PCle(support 3G,4G,wifi)/2 x COM/ 1 x Custom Expansion slot
0060-005071	EF-EIO-152	Expansion Board/1 x DVI-D/4 x Gbe(2 onboard, 2wafer)/2 x COM (wafer)/2 x USB2.0 /1 x DC power supply connector