

EC3-1821 3.5" SBC with Intel® Skylake-U

Brief Introduction

The motherboard adopts Intel® Skylake-U SOC processor. It contains one DDR4 SODIMM memory slot, supporting up to 16GB memory capacity. It also contains two onboard 10/100/1000Mbps network ports. It supports VGA, HDMI and LVDS display, and supports up to VGA/HDMI/LVDS three-channel simultaneous display. EC3-1821 family has abundant peripheral interface. The product supports two standard SATA interfaces, one mSATA interface, four USB3.0 ports, two USB2.0 ports, two COM ports (supporting RS-232/RS-422/RS-485), one standard MIC-IN/LINE-IN/LINE-OUT HDA audio port, one MPCIE slot and one self-define expansion port.



Features

Onboard Intel® Skylake-U i7/i5/i3/ Celeron CPU

Support up to 16GB memory

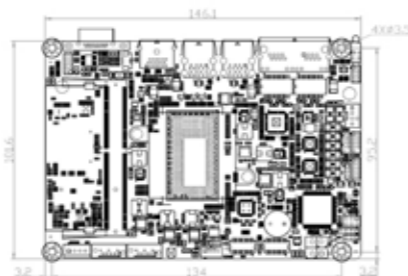
Support VGA+HDMI+LVDS+DVI-D

Support SATA, mSATA

Support Mini PCIE with SIM card holder

Support expansion board by MIOe port

Product size chart



(Company : MM)

Specifications

Items	Specification
Chipset	Intel® Skylake-U
CPU	Intel® i7-6600U 2.6GHz, i5-6300U 2.4GHz, i3-6100U 2.3GHz, 3955U 2.0GHz
Memory	1 x 260 PIN DDR4 SODIMM, up to 16GB
Storage	2 x SATA 3.0, 1 x mSATA
LAN	2 x 10/100/1000 Mbps RJ45
I/O	1 x VGA, 1 x HDMI, 1 x LVDS, 1 x DVI-D (optional) Support tri-independent display
	4 x USB 3.0, 2 x USB 2.0
	2 x Serial ports, support RS232/422/485
	Audio, support Mic-in, Line-in, Line-out
	1 x 8ch GPIO
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	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

Expansion Board Specification

Port	MIOe
Display	DVI-D (shared with VGA on motherboard)
LAN	2 x 10/100/1000 Mbps RJ45 2 x 10/100/1000 Mbps wafer
I/O	2 x USB 3.0
	4 x Serial ports, support RS232
	1 x 8ch GPIO
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
0030-022211	EC3-1821-3955U	3.5"/Intel® Celeron® 3955U/1 x SODIMM/2 x SATA/mSATA/VGA+HDMI+LVDS/2 x LAN/6 x USB/2 x COM/8ch GPIO/Audio/Mini PCIE with SIM card slot/0 ~ 60°C
0030-022151	EC3-1821-i36100U	3.5"/Intel® i3-6100U/1 x SODIMM/2 x SATA/mSATA/VGA+HDMI+LVDS/2 x LAN/6 x USB/2 x COM/8ch GPIO/Audio/Mini PCIE with SIM card slot/0 ~ 60°C/MIOe port
0030-022641	EC3-1821-i36100U -40~85°C	3.5"/Intel® i3-6100U/1 x SODIMM/2 x SATA/mSATA/VGA+HDMI+LVDS/2 x LAN/6 x USB/2 x COM/8ch GPIO/Audio/Mini PCIE with SIM card slot/-40 ~ 85°C/MIOe port
0030-022221	EC3-1821-i56300U	3.5"/Intel® i5-6300U/1 x SODIMM/2 x SATA/mSATA/VGA+HDMI+LVDS/2 x LAN/6 x USB/2 x COM/8ch GPIO/Audio/Mini PCIE with SIM card slot/0 ~ 60°C/MIOe port
0030-022481	EC3-1821-i56300U -40~85°C	3.5"/Intel® i5-6300U/1 x SODIMM/2 x SATA/mSATA/VGA+HDMI+LVDS/2 x LAN/6 x USB/2 x COM/8ch GPIO/Audio/Mini PCIE with SIM card slot/-40 ~ 85°C/MIOe port
0030-022231	EC3-1821-i76600U	3.5"/Intel® i7-6600U/1 x SODIMM/2 x SATA/mSATA/VGA+HDMI+LVDS/2 x LAN/6 x USB/2 x COM/8ch GPIO/Audio/Mini PCIE with SIM card slot/0 ~ 60°C/MIOe port
0030-022401	EC3-1821-i76600U -40~80°C	3.5"/Intel® i7-6600U/1 x SODIMM/2 x SATA/mSATA/VGA+HDMI+LVDS/2 x LAN/6 x USB/2 x COM/8ch GPIO/Audio/Mini PCIE with SIM card slot/-40 ~ 80°C/MIOe port
0060-005071	EF-EIO-152	MIOe board/DVI-D/4 x LAN/4 x COM/2 x USB/8ch GPIO/DC