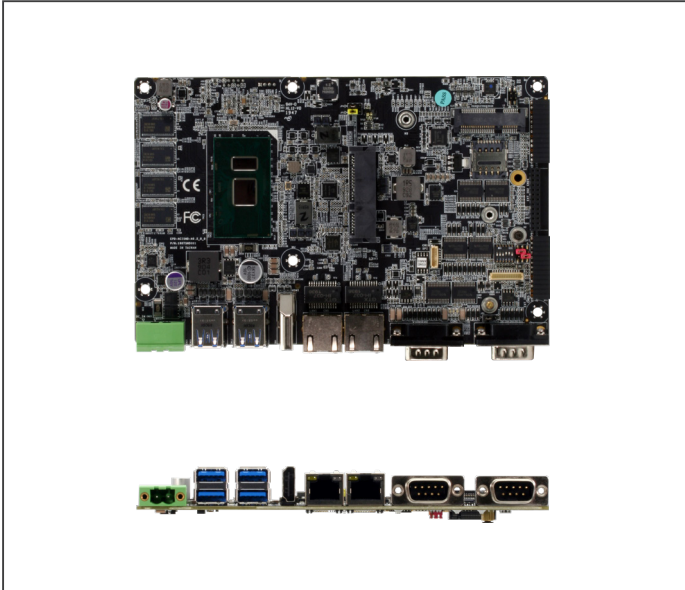


EPIC-SKU7

EPIC Board with 6th/7th Generation Intel® Core™ i-U series Processor



Features

- 6th gen Intel® Core™ i5-6200U/Celeron 3855U Processor SoC
- Non-ECC DDR4 onboard (Up to 8GB)
- LVDS/eDP x 1 (Default: LVDS), HDMI x 1
- Intel GbE x 2 (210IT), SATA3 x 1 (7P + 15P right angle connector)
- USB 3.0 x 4 (Rear I/O), USB2.0 x 5 (Header x 1, rest in EXT I/O)
- Touch x 1 (via USB signal), HDA with Amp x 1
- RS-232/422/485 x 2 (Rear I/O x 2), RS-232 x 4 (In EXT I/O)
- Full size mSATA/mPCIe Slot x 1 (With Micro-SIM, default mSATA)
- M.2 2280 M key x 1 (PCIe[x4] signal only)
- EXT I/O x 3
- Wide DC Input 9-36V

Specifications

System	
Form Factor	4" EPIC Board
CPU	Intel® 6/7th Generation Core™ i5/Celeron SoC i5-6200U(15W) Celeron-3855U(15W)
CPU Frequency	Up to 2.8GHz
Chipset	Integrated SoC
Memory Type	DDR4-1866/2133 Dual Channel DDR4 (Non-ECC) onboard
Max. Memory Capacity	Up to 8GB
BIOS	UEFI only
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+9V ~ 36V
Power Supply Type	AT/ATX (Default: AT)
Power Consumption (Typical)	23.4W (Full loading mode)
Dimension (L x W)	6.89" x 4.45" (175mm x 113mm)
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 176°F (-20°C ~ 80°C)
Operating Humidity	0-90% @ 40°C, non-condensing
MTBF (Hours)	TBD
Certification	CE/FCC Class A
Display	
VGA/LCD Controller	Intel® HD Graphics 510 Intel® HD Graphics 520
Video Output	LVDS/eDP x 1 (Default: LVDS) HDMI 1.4 x 1
Backlight Inverter Supply	Max 12V, 2A
I/O	
Ethernet	i210IT, 10/100/1000 Base, RJ45 x 2
Audio	High Definition Audio Interface, Line-in/Line-out/MIC (w/ 3W, 4 Ohm Amplifier)
USB Port	USB 3.0 x 4 (Rear I/O) USB 2.0 x 5 (Header x 1, rests in EXT I/O)

Serial Port	RS-232/422/485 x 2 (Rear I/O x 2) RS-232 x 4 (In EXT I/O)
Parallel Port	—
HDD Interface	—
SSD	1. SATA3 x 1 (7+15P connector) 2. Full size mSATA/mPCIe x 1 with Micro-SIM (mSATA as default) - Celeron 3855U: mSATA/mPCIe selected by BOM - i5-6200U: mSATA/mPCIe selected by BIOS 3. M.2 2280 M key x 1 (PCIe[x4] as default)
Expansion Slot	External port: USB2.0 x 4 COM x 4 PCIex1 x 3
DIO	—
TPM	—
Touch	Yes (co-lay with USB2.0)
SIM	Micro SIM
Others	SMBUS x 1, LPC

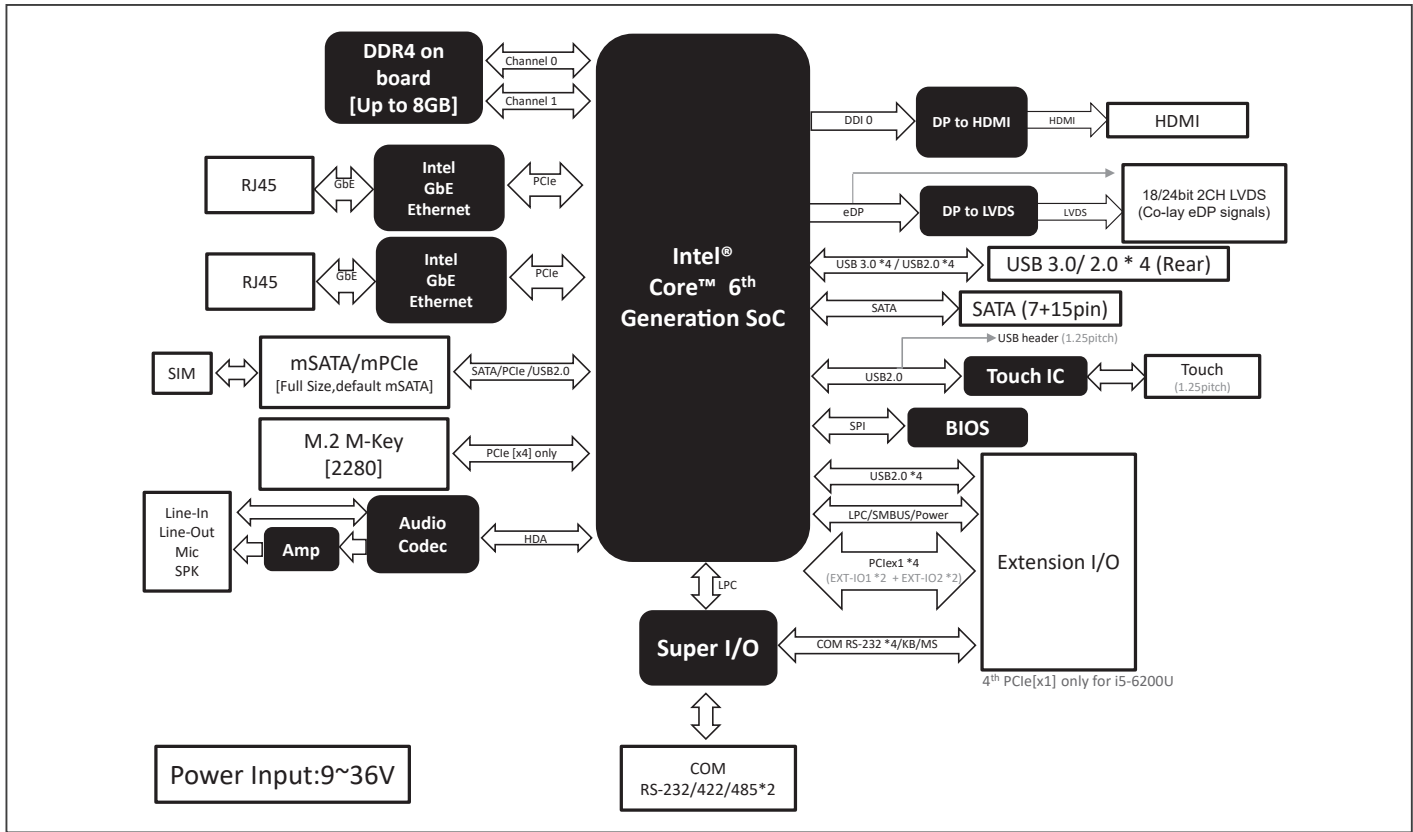
Packing List

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Optional Accessories

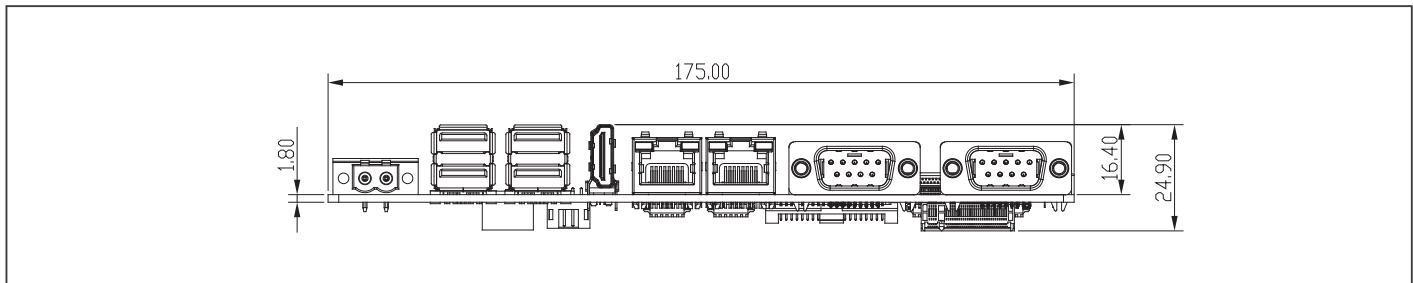
Part Number	Description	QTY
170204010R	2-Pin Power in to 4-Pin Housing Cable	1

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Fan/ Fanless	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/ 422/485	Expansion Slot	Power	Operating Temp	Others
EPIC-SKU7-A10-0001	Intel®i5-6200U	Fanless	LVDS/eDP x 1 HDMI 1.4 x 1	18/24-bit, 2CH	SATA3 x 1 mSATA/mPCIe x 1 with Micro-SIM (Full size) M.2 2280 M key x 1 (PCIe x4)	GbE x 2	USB3.0 x 4 (Rear I/O) USB2.0 x 5 (Header x 1, rests in EXT I/O)	4 (external)	2	USB2.0 x 4 COM x 4 PCIex1 x 3	9~36V	0°C ~ 50°C	SMBUS LPC
EPIC-SKU7-A10-0002	Intel®Celeron-3855U	Fanless	LVDS/eDP x 1 HDMI 1.4 x 1	18/24-bit, 2CH	SATA3 x 1 mSATA/mPCIe x 1 with Micro-SIM (Full size) M.2 2280 M key x 1 (PCIe x4)	GbE x 2	USB3.0 x 4 (Rear I/O) USB2.0 x 5 (Header x 1, rests in EXT I/O)	4 (external)	2	USB2.0 x 4 COM x 4 PCIex1 x 3	9~36V	0°C ~ 50°C	SMBUS LPC