KL-35

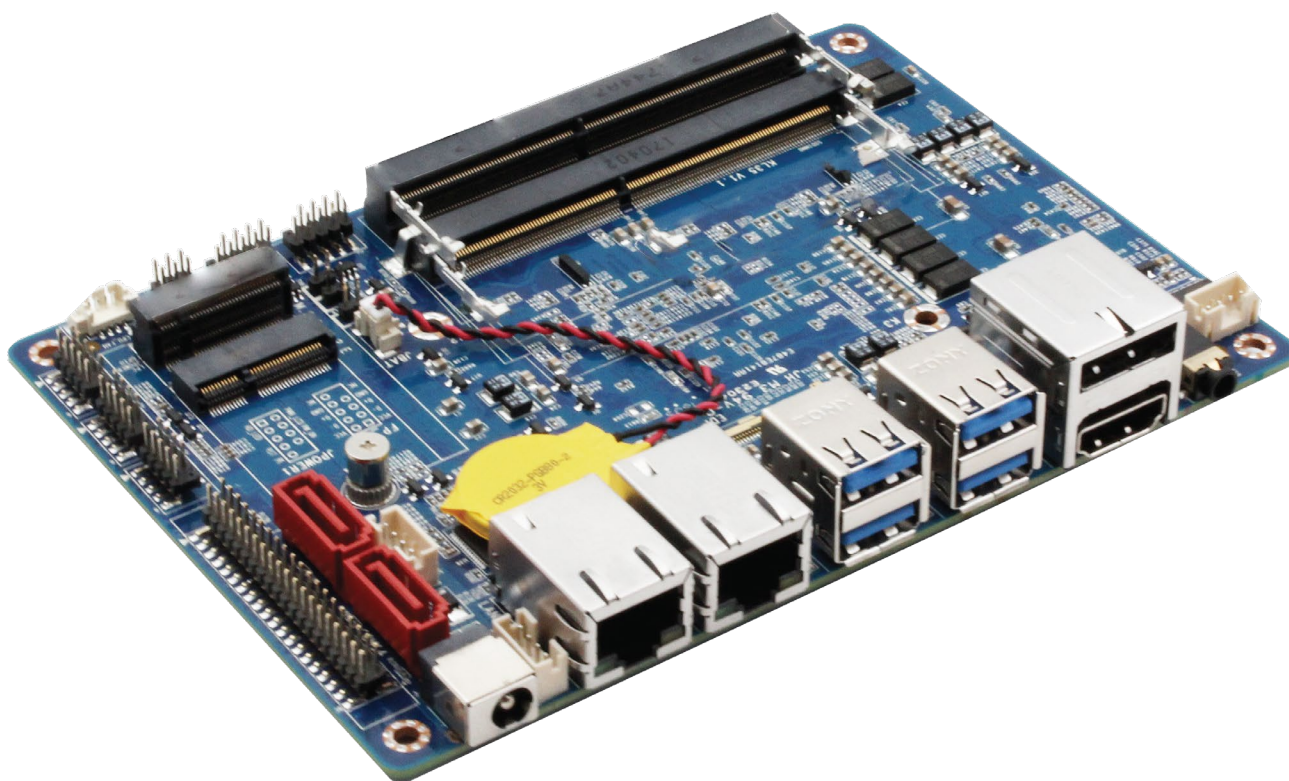## Intel® Kabylake/Skylake-U based 3.5" Disk Size Motherboard

Features

- CPU: Intel® Skylake-U/Kabylake-U BGA processor
- Memory: Dual Channel DDR4 up to 32GB
- Display: Intel® Graphics display via DP, HDMI, eDP/LVDS
- Ethernet: 10/100/1000Mbps
- Storage: SATA3.0, M.2 for 2242 SATA SSD
- Expansion: M.2 for WiFi, Mirco SIM
- Power: 12V/19V DC input

(intel®) IoT Solutions Alliance
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Introduction

The Maxtang KL35 is a 3.5" disk size embedded motherboard based on the Intel Skylake/Kabylake-U processors, provides powerful performance with low power consumption. Supports dual-channel SO-DIMM DDR4 up to 32GB, display via HD Graphics through HDMI, DP, and eDP/LVDS. Features two 10/100/1000 Mbps Ethernet controllers, SATA3.0, M.2 for storage, and micro-SIM for expansion. A rich input/output interface includes 6x COM, 4x USB3.2, 4xUSB2.0, 8x GPIO, Audio Ports (Mic-in+ Line-out) with standard 12V/19V DC-in caters to most market's requirement.

The KL-35 is an ideal solution for various industrial applications. It retains the robust design of all Maxtang product lines at a new cost-effective price point. Its powerful features provide you a great user experience, increase your productivity with stability, reliability. Maxtang is a member of the Intel IoT Solutions Alliance on Industrial Solution Builders Specialist. Our goal is to provide you the best products with high quality and cost advantages.
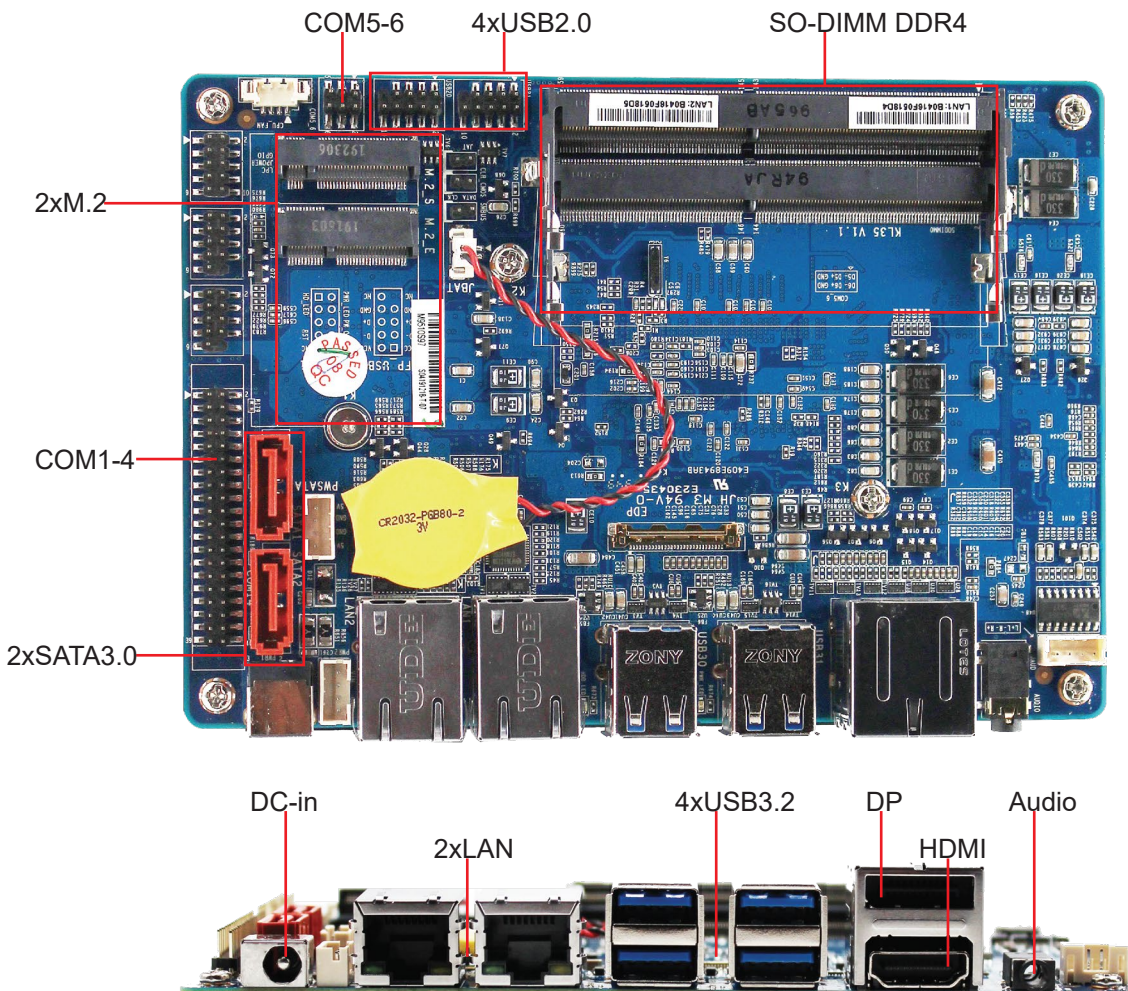
Linux

ubuntu Linux

Windows

H/W Monitor   Watchdog

GPIO   Brightness

I/O Interfaces

Technical Specifications

Processor	CPU	3865U	i3-7100U	i5-7200U	i3-6100U	i5-6200U
	Base Frenquency	1.8GHz	2.4GHz	2.5GHz	2.3GHz	2.3GHz
	Max Turbo Frequency	/	/	3.1 GHz	/	2.8GHz
	Cache	2MB	3MB	3MB	3MB	3MB
	TDP	15W	15W	15W	15W	15W
	BIOS	AMI UEFI BIOS				
Memory	Type	SO-DIMM Dual Channel DDR4				
	Max. Capacity	32GB				
Display	GPU	Intel HD Graphics based on CPU				
	Display via	1xHDMI + 1xDP + 1x eDP (can be expanded to LVDS via daughter board)				
Ethernet	Speed	10/100/1000 Mbps				
	Controller	intel i211 + intel i219				
	Interface	RJ45				
	Wake on LAN	Yes				
	vPro/AMT	Yes, based on the specified CPU and intel i219 ethernet chip				
Audio	Audio Codec	Realtek HD				
	Interface	Line-out and mic-in in one, support amplifier header				
Hardware		CPU system temperature, on-board DC-in voltage, watchdog, auto power on				
Storage	M.2	1x M.2 for 2242 SATA SSD or 4G				
	SATA3.0	2 (only 1 if Celeron is onboard)				
Expansion	M.2	1x M.2 for Wi-Fi				
	Micro SIM	1				
I/O Interface	LAN	2				
	COM	6*COM: 4*RS232+2*RS485				
	USB3.2	4				
	USB2.0	4* Header				
	Audio	1 (Line-out+Mic-in in one)				
	GPIO	8				
	LPC	Optional				
Dimension	Size	146 mm x 102mm				
	Board Type	3.5'' Disk Size SBC				
Power	Standard Port	12V/19V DC-in/4-pin power				
	Peripheral Input	For Fan and SATA				
	LED Indicator	Power indicator				
Temperature	Operating Temp.	-20°C to 60°C				
	Storage Temp.	-40°C to 80°C				
Operating System		Win7 64bit, Win10 64bit, Linux 32/64bit				

Functional Block Diagram


```
HDMI        DP          eDP

Dual Channel SO-DIMM DDR4              Intel®          2x SATA
                                      Kaby Lake-U
Line-out                              /Skylake-U      1x M.2 for Wi-Fi
Mic-in      Realtek
Speaker     HDA                                       1x M.2        Micro
                                                      for SSD/4G    SIM

8 x GPIO                                              Intel         RJ45
                                                      i211

6*COM:      IT8786E                                  Intel         RJ45
4*RS232                                              i219
+2*RS485                Onboard
                        DC/DC                        4x USB3.2
            FAN
                        DC-IN                        4x USB2.0 Header
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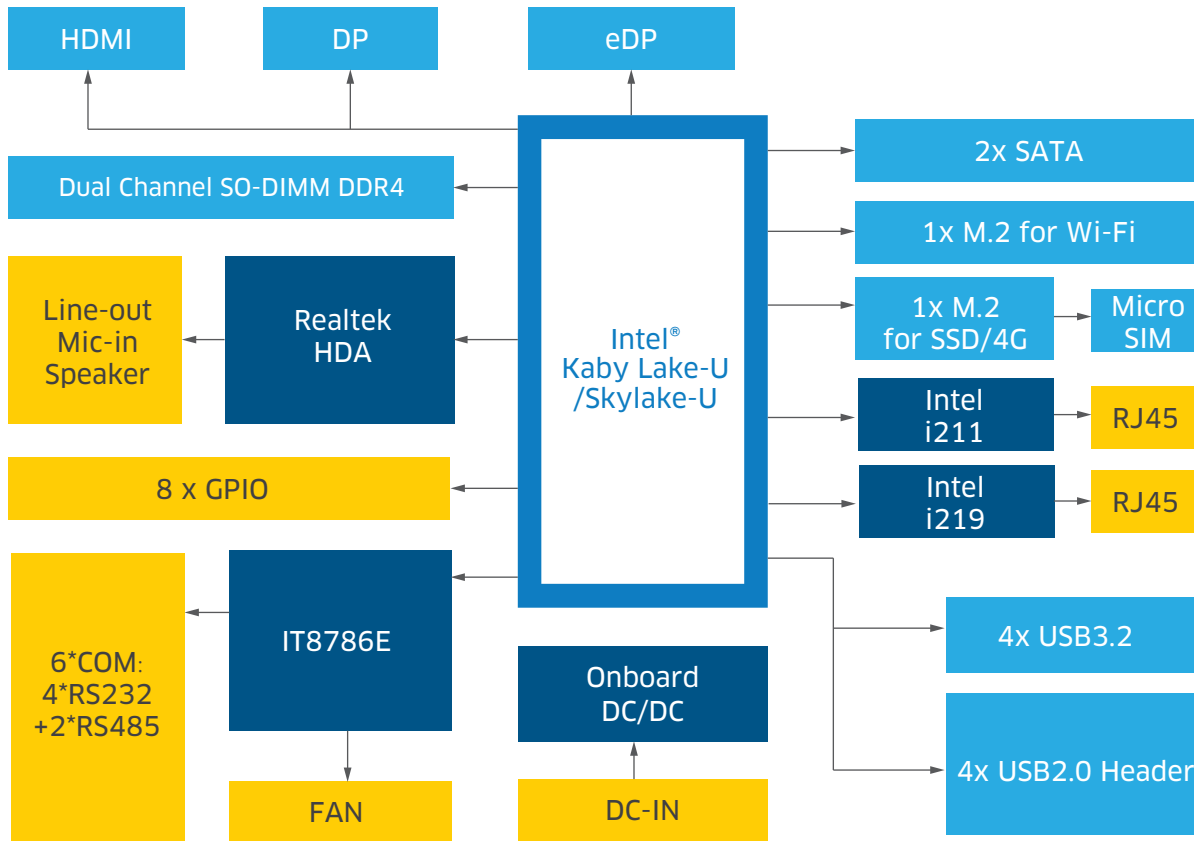
Order Information

Model Name	Description
DT7200U-I	DT 3.5INCH Intel Core I5-7200U KL35 2LAN 4*RS232 2*RS485 HDMI+DP+EDP

*For customized options, please consult regional sales. And please confirm the model name and description before purchasing. *The model name and description might vary due to inventory changes.

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