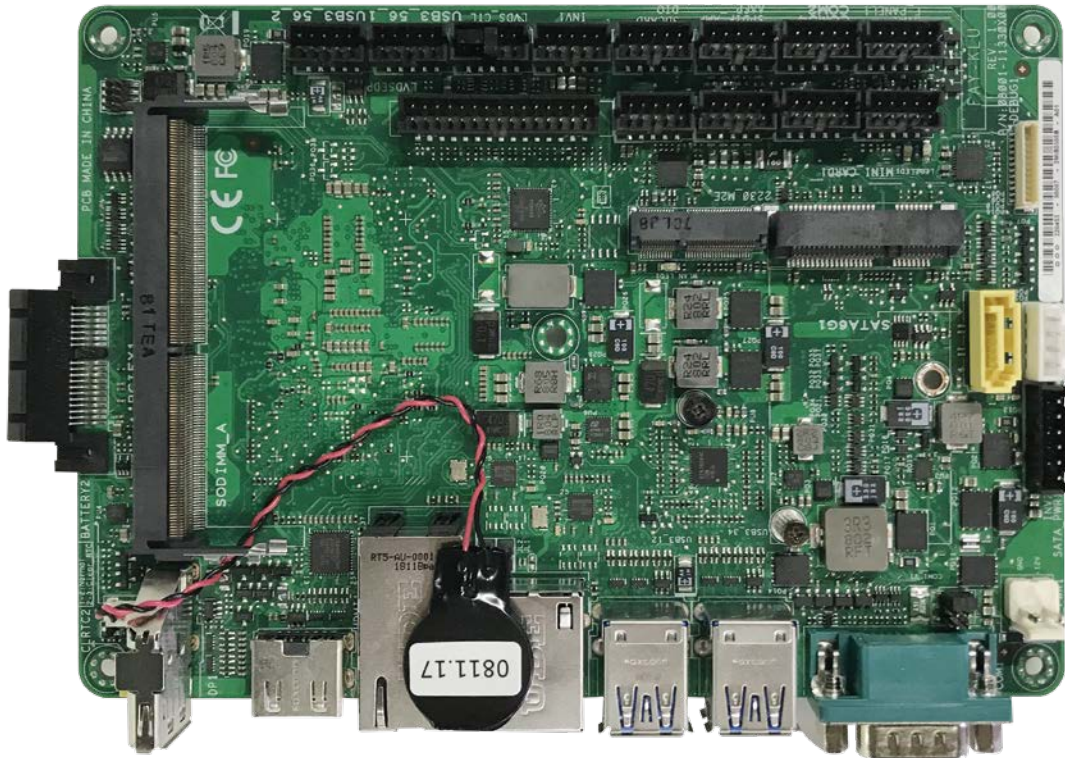


Kaby Lake U
FTi5KLU

i3 Mainboard
i5 Mainboard (standard)
i7 Mainboard

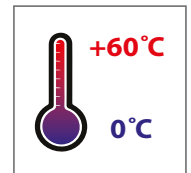
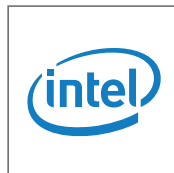
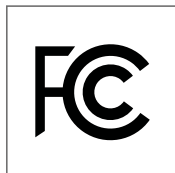
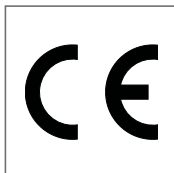
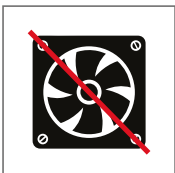


This Kaby Lake U mainboard series is the perfect solution for customers that really demand power in their systems. It follows the highest industrial PC standards and provide an outstanding performance. It is available in 3 versions:

- Intel® Core™ i3-7100U Processor, with 2x 2.40 GHz
- Intel® Core™ i5-7300U Processor, with 2x 2.60 GHz (standard)
- Intel® Core™ i7-7600U Processor, with 2x 2.80 GHz

This mainboard series has a large range of available connectors: DisplayPort, HDMI, USB 3.0, USB 2.0, RJ45, PCIe and more. With high energy-efficiency, great cooling performance and 4K graphics support is this the perfect solution for your application.

Take your time and design your own product around the Kaby Lake U mainboard series, it will be available in production until at least 2023, with a longevity support of 15 years!



Product name	Kaby Lake U i3 / i5 / i7
Model number / EAN number	FTi3KLU / 6920734095100
	FTi5KLU / 6920734095117
	FTi7KLU / 6920734095124

Environment & Power & ME	
Power Requirement	1x onboard 2 pin Power input connector (12 VDC ± 10%)
Power Compliance	Yes
Operating Temperature (°C)	0 ~ +60
Operating Humidity	0% ~ 90% RH, non-condensing
Certificate	CE & FCC class A
Form Factor	EPIC Form Factor, 4.53" × 6.5" (115mm × 165mm)

System	
CPU	Intel® Core™ i3-7100U processor Kaby Lake (FTi3KLU)
	Intel® Core™ i5-7300U processor Kaby Lake (FTi5KLU)
	Intel® Core™ i7-7600U processor Kaby Lake (FTi7KLU)
Memory	1x SO-DIMM, max. 16 GB, DDR4 1866/2133 non-ECC, Single channel memory
Storage	1x Serial ATA 6Gb/s
	1x 5V/12V SATA power connector
Graphics	Intel® HD Graphics
LAN	2x LAN connector (1x with POE option)
Audio	1x Realtek ALC3236 Audio CODEC
TPM	1x Nuvoton NPCT650ABAYX TPM 2.0
H/W Monitor	Temperature Monitor on CPU/System
	Voltage Monitor on Vcore/5V/3.3V/12V voltages
WatchDog Timer	1~255 step by software program
Wake On LAN / PXE	Yes (WOL / PXE)
Power State	S3, S4, S5
Parallel Port	Yes
GPIO	8x Digital I/O
CAN Bus	Yes

Rear I/O (low profile)	
1x DisplayPort - vertical (up to 4096 × 2160 @ 60 Hz)	
1x HDMI connector (up to 3840 × 2160 @ 30 Hz)	
1x COM (COM 1, RS232/422/485; RI / 5V / 12V)	
2x LAN (RJ45) port (LAN1 with POE option)	
2x USB 3.0 (blue)	
2x USB 2.0 (black)	

Expansion Slots	
1x PCIe x1 straddle type	
1x Mini PCIE, mSATA/MINI PCIE optional, default setting as mSATA	
1x M.2 E-key for wireless device	

Compatible OS	
Linux Ubuntu 16.04	
Windows® 10 Enterprise	
Wind River 8.0 & Yocto Project Linux distribution (64bit)	

Internal I/O	
1x 12V DC-IN Power Connector (2 pin)	2x USB 3.0 box header (2x 5 pin, 2.00mm)
1x PCIe x1 straddle type (optional)	1x 4 pin SATA power connector (wafer, 4 pin, 2.50mm)
1x SATA connector (standard, 7 pin)	3x RS232 box header (COM 2 & COM 3 & COM 4, 2x 5 pin, 2.00mm)
1x Front Panel box header (2x 5 pin, k10, 2.00mm)	1x SPDIF output box header (2x 5 pin, k4, 2.00mm)
1x eDP/LVDS box header (2x 15 pin, 2.00mm)	1x Line-out / Mic-in header (2x 5 pin, k8, 2.00mm)
1x M.2 E-key slot (NGFF2230, 22 × 30mm) for wireless device	1x SIM connector (2x 5pin, 2.00mm)
1x M.2 M-key (NGFF2242, 22 × 42mm) for storage	1x DIO connector (2x 5 pin, 2.00mm)
2x LCD Backlight control/LCD panel voltage box (2x 5 pin, 1x 6 pin, 2.00mm)	



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