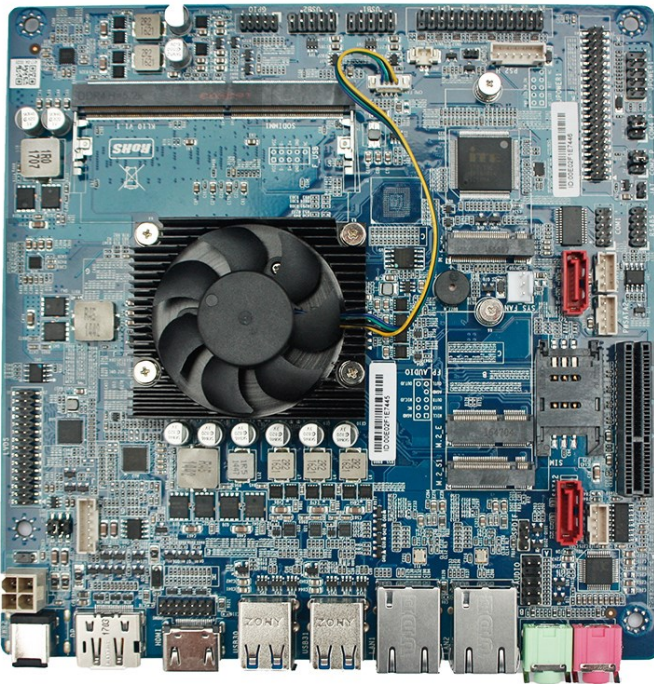


1ST-MITX-KL10

Thin Mini ITX-Motherboard

with 7th Gen Intel® Core or Celeron® Processor (Kaby Lake), 3x M.2, 2x LAN



- Onboard 7th Gen. Intel® Core™ i3/i5/i7 or Celeron® dual-core Processor (Kaby Lake)
- 2x LAN
- 2x SO-DIMM slots for DDR4 2133MHz up to 32GB RAM
- 2x SATA3.0 (for Celeron® only 1x SATA3.0), 1x M.2 2230 for WIFI, 1x M.2 2242 for 3G/4G, 1x M.2 2242 for SSD, 1x eMMC (optional)
- Rich I/O ports: 4x USB 3.0, 4x USB 2.0, 2x RJ45, 5x RS232, 1x RS485. 8bit GPIO, Audio
- Supporting multiple display via HDMI, DP, eDP/LVDS
- Support 3G/4G network
- Intelligent fan cooling, low power consumption

	Items	Descriptions
	Dimensions (WxD)	170mmx170mm
Motherboard	CPU	Intel® Core™ i7-7500U (2.7GHz up to 3.5GHz, dual-core processor, TDP 15W) Intel® Core™ i5-7200U (2.5GHz up to 3.1GHz, dual-core processor, TDP 15W) Intel® Core™ i3-7100U (2.4GHz, dual-core processor, TDP 15W) Intel® Celeron® 3865U (1.8GHz, dual-core processor, TDP 15W)
	System Memory	2x SO-DIMM slots for DDR4 up to 2x 16GB RAM
	GPU	Intel® HD Graphics: 1x HDMI 1.4, 1x DP 1.2 (DP to HDMI converter optional), 1x LVDS (24 bit Dual Channel - can be changed to eDP 1.3)
Ethernet	Interface	2x RJ45 GbE with Intel® i211 controller
Storage		2x SATA 3.0 1x M.2 2242 Key B (for 2242 SSD) 1x eMMC (optional for OEM orders)
System I/O	Expansion	1x PCIe x4 (for WIFI card and video card) 1x M.2 2242 Key B for NGFF 3G/4G module, SIM slot onboard 1x M.2 2230 Key E for NGFF WIFI
	I/O Connectors	4x USB 3.0 4x USB 2.0 header 5x RS-232, 1x RS-485 GPIO: 8 Bit (onboard 2x5 pin header) 1x PS/2, 1x LPT header
Power Supply	Power Input	12V DC-IN
Environments	Operating temperature	0°C ~ 60°C, optional -40°C ~ 60°C

All data is for information purposes only and not guaranteed for legal purposes. Information in this datasheet has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. All brand or product names are trademarks or registered trademarks of their respective owners.

Packing List

1x 1ST-MITX-KL10 Motherboard
1x QIG
1x CPU cooler

Ordering Information

Part No.	Descriptions
1ST-MITX-KL10-i7-7500U	Intel® Core™ i7-7500U (2.7GHz up to 3.5GHz, dual-core, processor, TDP 15W) Supports Integrated Intel® HD Graphics GPU 620
1ST-MITX-KL10-i5-7200U	Intel® Core™ i5-7200U (2.5GHz up to 3.1GHz, dual-core processor, TDP 15W) Supports Integrated Intel® HD Graphics GPU 620
1ST-MITX-KL10-i3-7100U	Intel® Core™ i3-7100U (2.4GHz, dual-core processor, TDP 15W) Supports Integrated Intel® HD Graphics GPU 620
1ST-MITX-KL10-Celeron-3865U	Intel® Celeron® 3865U (1.8GHz, dual-core processor, TDP 15W), Supports Integrated Intel® HD Graphics GPU 610

