

3.5" SBC Form Factor  
Intel Kabylake-U / Skylake-U

# PD10KS



All Solid  
Capacitor



Intel KBL-U



MiniCard Support



USB3.0  
X4



DC-in 8V-24V



RS232 x 4

## Features

Intel Kabylake / Skylake ULV Core i3 / i5 / i7 Processor

Intel HD graphics and DirectX 12 support

Dual channel DDR4 with two connectors for MAX.  
32GB memory

Triple independent display from HDMI, VGA, and  
eDP / LVDS connectivity

Features high speed Dual Gigabit Ethernet

Features 1 SATA 6 Gb/s

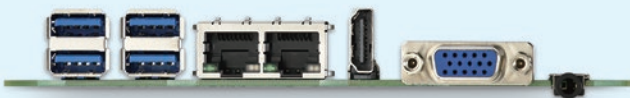
Four SuperSpeed USB 3.0 ports support

Three RS232 + One RS232/422/485 ports

One PCI Express Mini Card connector for expansion

One M.2 2232 (E key) for expansion

8V to 24V wide-range voltage input



[www.mitac.com](http://www.mitac.com)

## Sales Contact

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Item	Spec	
Form Factor	3.5" single board computer, 102mm x 147mm (4" x 5.8")	
Processor Chipset	Intel Kaby Lake-U i3-7100U with integrated graphics (Compatible with Skylake 3955U / i3-6100U / i5-6300U / i7-6600U and KabyLake 3965U / i5-7300U / i7-7600U)	
Main Memory	<ul style="list-style-type: none"> <li>• 260-pin DDR4 SO-DIMM slot</li> <li>• Max capacity up to 32GB</li> </ul>	2
Audio Controller	Realtek ALC283	
Expansion Capability	<ul style="list-style-type: none"> <li>• M.2 2230 (E Key) with (PCIe x 1 / USB 2.0)</li> <li>• Mini PCIe (full length, USB / PCIe / SATA)</li> </ul>	1 1
External I/O	• HDMI-out	1
	• VGA	1
	• USB 3.0	4
	• RJ-45	2
	• Audio combo jack (Mic-in and Line-out)	1
	• LVDS Connector (40Pin) (colay eDP)	1
	• 7-pin SATA connector	1
Internal I/O	• 4-pin SATA power	1
	• USB 2.0 port	2
	• RS-232	3
	• RS-232/422/485	1
	• Audio header supporting system stereo speaker or buzzer	1
	• MiAPI header (Programmable header (support GPIO x 10, SMBUS x 1, UART x 1, Watchdog x 1) with API library supported for Windows OS)	1
	• Chassis front panel header	1
	• DC power input header (4pin)	1
	• Clear CMOS header	1
	• AT/ATX mode select header	1
SI/O Controller	NCT6104D	
LAN Controller	• 1 x I219LM, 1 x I211AT	
BIOS	AMI UEFI	
Hardware Management	• Nuvoton NCT6104D based subsystem, including:	
	<ul style="list-style-type: none"> <li>• Voltage sense to detect out of range power supply voltages</li> <li>• Thermal sense to detect out of range thermal values</li> </ul>	
Environment	• Operating Temperature: 0°C~60°C (32°F~140°F)	
	• Storage Temperature: -20°C~80°C (-4°F~140°F)	
Certification	• Relative Humidity: 95% @60°C non-condensing	
	• CE	
Operating System	• FCC	
	Skylake: win7, win8.1, win10, linux support by request	
	KabyLake: win10, linux support by request	
SKU Configuration	SKU-D1: MB + Heatsink (Default)	
	SKU-D2: MB + Heat Spreader	
	SKU-D3: MB	

## Packing List

- PD10KS Mainboard
- Driver CD
- Quick Guide
- SATA Power Cable
- SATA Signal Cable