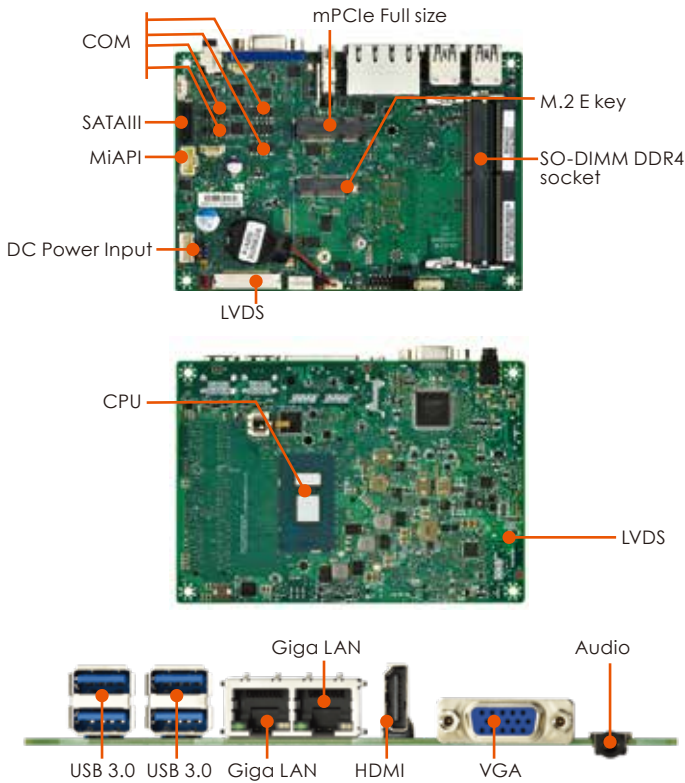


PD10KS

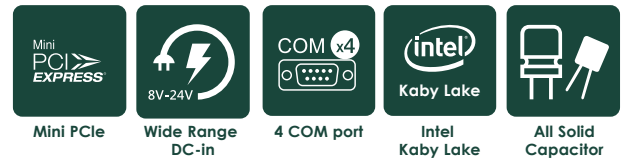
3.5" SBC Form Factor

Intel® Kaby Lake / Skylake Processor

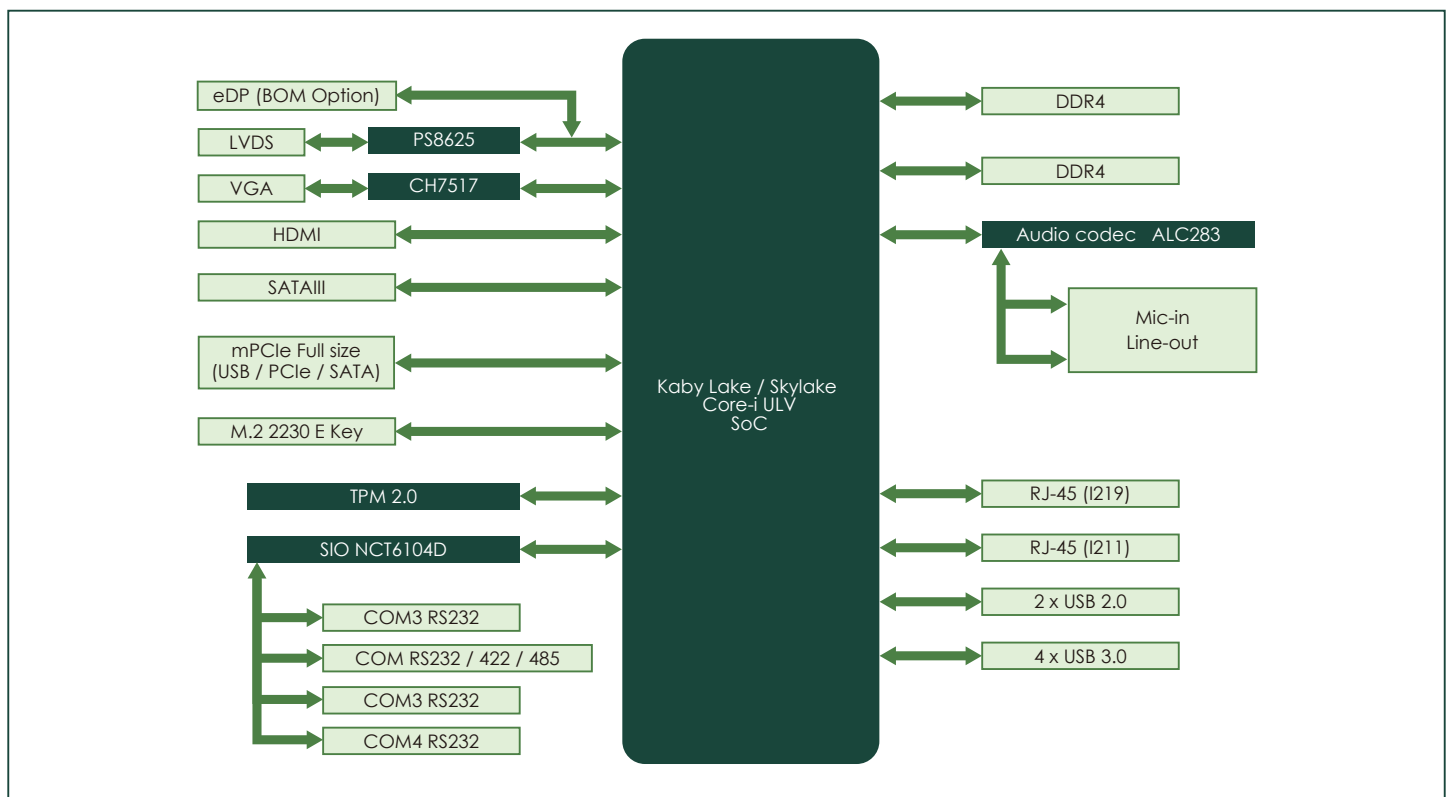


Features

- Intel® Skylake/Kaby Lake Core i7/i5/i3/Celeron ULV processors
- Intel® vPro technology support
- 2 x DDR4 SO-DIMM and support up to 32GB
- Support triple display for HDMI, VGA and LVDS/eDP
- 1 x SATA III
- 2 x Intel® Gigabit Ethernet
- 2 x USB 2.0, 4 x USB 3.0 and 4 x COM
- 8V~24V wide voltage power input



Block Diagram



PD10KS

3.5" SBC

Industrial Motherboard

MECHANICAL

Form Factor 3.5" SBC Embedded: 4" x 5.8" (102mm x 147mm)

SYSTEM

Processor	Intel® Kaby Lake-U i3-7100U (Dual Core, 3MB Cache, 2.40 GHz) Option: Kaby Lake Celeron 3965U / i5-7300U / i7-7600U Skylake celeron 3955U / i3-6100U / i5-6300U / i7-6600U
Chipset	Intel® SoC Integrated
Memory	DDR4 2133/2400, 2 x 260-pin SO-DIMM, Max. 32 GB (Non-ECC)
Graphics	Intel® HD Graphics
Ethernet	Intel® I219LM Giga LAN + I211AT Giga LAN
Audio	Realtek® ALC283
I/O Chipset	Nuvoton NCT6104D
TPM	Nuvoton NPCT650ABCYX TPM2.0
Expansion Slot	Storage: Mini PCIe Full size (USB / PCIe / SATA) Wireless: M.2 2230 E key (PCIe / USB)
BIOS	AMI BIOS
H / W Monitor	Temperature Monitor, Voltage Monitor, Fan Monitor
Watchdog Timer	1~255 Steps by Software Program
Smart Fan Control	CPU Fan / System Fan

GRAPHICS

VGA	Up to 1920 x 1200 @60 Hz
DVI	—
HDMI	Up to 4096 x 2160 @24 Hz
DisplayPort	—
LVDS	Up to 1920 x 1200 @60 Hz
eDP (Option)	Up to 4096 x 2304 @60 Hz

REAR I/O

USB	4 x USB 3.0
Display I/O	1 x HDMI 1.4, 1 x VGA
Audio I/O	1 x Audio combo jack (Mic-in and Line-out)
LAN I/O	2 x RJ-45
Serial Port	—
PS/2 Port	—
Others	—

INTERNAL CONNECTORS

Storage	1 x SATAIII
USB	2 x USB 2.0
Display I/O	1 x LVDS (colay eDP) 1 x Backlight Connector
Audio I/O	1 x Audio Header Supporting System Stereo Speaker or Buzzer 1 x Audio Header without Amplifier (for Extra Amplifier Board for System Speaker)
Serial Port	4 x RS232 (One Supports RS232/422/485)
PS/2 Port	—
Parallel Port	—
GPIO	1 x MiAPI Header (Programmable. Support 10 x GPIO)
Fan	1 x 4PIN PWM Fan Header
Power	1 x 8~24V 4-pin Power Header, 1 x AT/ATX Mode Select Jumper
Others	MiAPI: Programmable header (support 10 x GPIO, 1 x SMBUS, 1 x UART, 1 x Watchdog) with API library supported for Windows OS, 1 x Chassis Front Panel Header (2x5PIN), 1 x CMOS Jumper

POWER REQUIREMENT

Power Input	4-pin Power Header DC-in 8~24V
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ENVIRONMENTAL

Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-20 ~ 80°C (-4 ~ 176°F)
Operating Humidity	10% ~ 95% R/H, non-condensing
Certification	CE & FCC Class B

OS

OS Support	Kaby Lake: Windows® 10 64bit, Linux (support by request) Skylake: Windows® 7 32/64bit, Windows 8.1 64bit, Windows 10 64bit, Linux (support by request)
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Ordering Information

Model Number	Processor	HS Configuration	Model Number	Processor	HS Configuration
PD10KS-3965U-HSK	Celeron 3965U	MB + Heatsink	PD10KC-3955U-HSK	Celeron 3955U	MB + Heatsink
PD10KS-7100U-HSK	i3-7100U	MB + Heatsink	PD10KC-6100U-HSK	i3-6100U	MB + Heatsink
PD10KS-7300U-HSK	i5-7300U	MB + Heatsink	PD10KC-6300U-HSK	i5-6300U	MB + Heatsink
PD10KS-7600U-HSK	i7-7600U	MB + Heatsink	PD10KC-6600U-HSK	i7-6600U	MB + Heatsink

Packing List

Packing

- 1 x Motherboard
- 1 x 50cm SATA Cable
- 1 x 45cm SATA Power Cable
- 1 x Driver CD
- 1 x Quick Guide