

PD10BI

Thin Mini-ITX Form Factor
Intel® Bay Trail Processor

Features

- Intel® Bay Trail Atom/Celeron/Pentium BGA processor
- 2 x DDR3L SO-DIMM and support up to 8GB
- Support dual display for HDMI, VGA and LVDS/eDP
- Support 1 x PCIe X1 (Gen 2) slot and 2 x Mini PCIe slot
- 8V~19V wide voltage power input



2 Mini PCIe



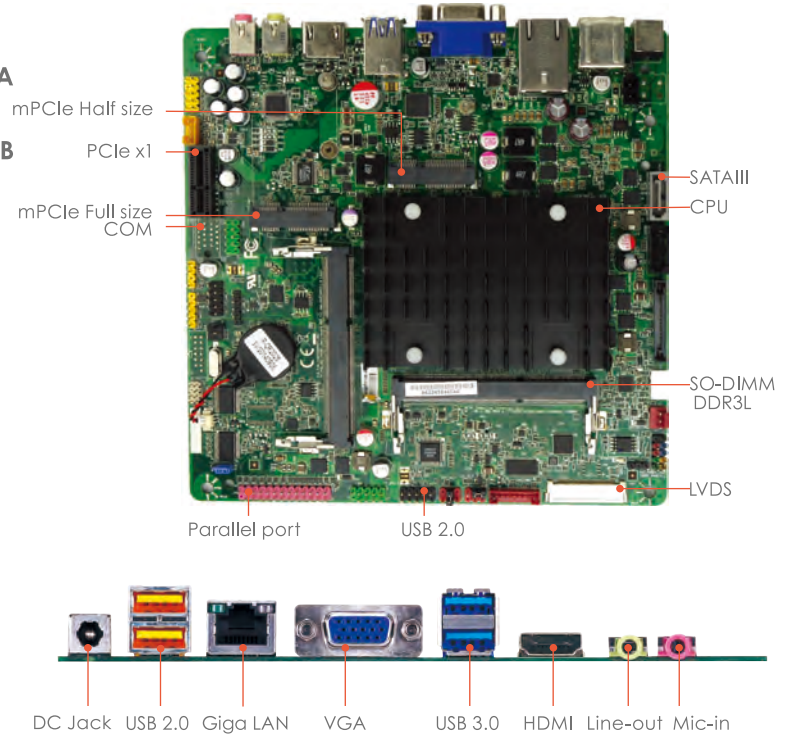
USB3.0



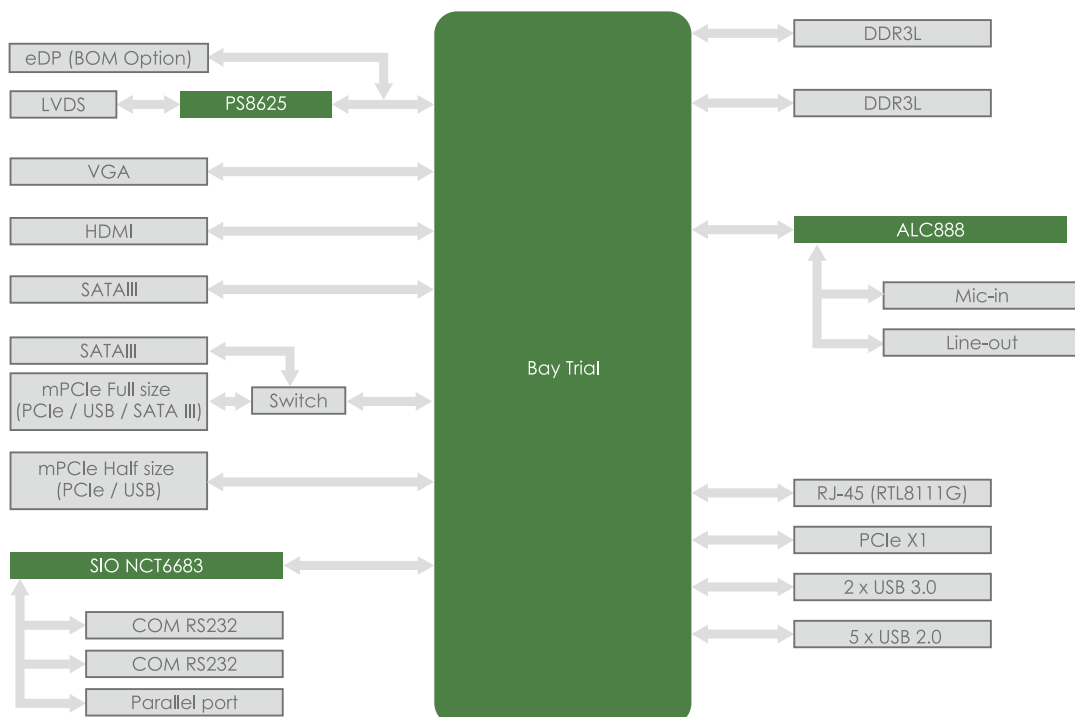
2 COM port



FCC Class B



Block Diagram



PD10BI Thin Mini-ITX

MECHANICAL	
Form Factor	Thin Mini-ITX: 6.7" x 6.7" (170mm x 170mm)
SYSTEM	
Processor	Intel® Bay Trail-D J1900 Processor
Chipset	Intel® SoC Integrated
Memory	DDR3L 1333L, 2 x 204-pin SO-DIMM, Max. 8 GB (Non-ECC)
Graphics	Intel® HD Graphics
Ethernet	Realtek® RTL8111G Giga LAN
Audio	Realtek® ALC888
I/O Chipset	Nuvoton NCT6683D
TPM	Nuvoton NPCT420AA0WX (Optional)
Expansion Slot	1 x PCIe X1 slot 1 x mini PCIe Full / Half size (PCIe / SATA / USB) 1 x mini PCIe Half size (PCIe / USB)
BIOS	AMI BIOS
H / W Monitor	Temperature Monitor, Voltage Monitor, Fan Monitor
Watchdog Timer	—
Smart Fan Control	—
GRAPHICS	
VGA	Up to 1920 x 1200 @60 Hz
DVI	—
HDMI	Up to 1920 x 1200 @60 Hz
DisplayPort	—
LVDS	Up to 1920 x 1200 @60 Hz
eDP (Option)	Up to 2560 x 1600 @60 Hz
REAR I/O	
USB	2 x USB 3.0, 2 x USB 2.0
Display I/O	1 x HDMI 1.4, 1 x VGA
Audio I/O	1 x Mic-in, 1 x Line-out
LAN I/O	1 x RJ-45
Serial Port	—
PS/2 Port	—
Others	DC-in Jack 8-19V (2.5mm/ ID, 5.5mm/ OD)
INTERNAL CONNECTORS	
Storage	2 x SATAIII (One SATA is multiplexed with an mSATA port)
USB	3 x USB2.0
Display I/O	1 x LVDS *Optional eDP SKU available 1 x Backlight Connector
Audio I/O	1 x Stereo Speaker Header, 1 x S/PDIF header 1 x Front Audio Header (Mic-in & Line-out), 1 x Digital MIC
Serial Port	2 x RS232
PS/2 Port	—
Parallel Port	1 x Parallel Port Header
GPIO	—
Fan	1 x 4-pin PWM Fan Header, 1 x 3-pin Voltage Control Fan Header
Power	1 x 2-pin Power Connector
Others	1 x CMOS Jumper
POWER REQUIREMENT	
Power Input	2-pin Internal Power Connector + DC Jack DC-in 8-19V
ENVIRONMENTAL	
Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-20 ~ 70°C (-4 ~ 176°F)
Operating Humidity	10% ~ 95% R/H, non-condensing
Certification	CE, FCC, Class B
OS	
OS Support	Windows® 7 32/64bit, Windows® 8.1 64bit, Windows® 10 64bit, Linux (support by request)

Ordering Information

Model Number	Processor	VGA	HDMI	LVDS / eDP	USB 3.0 / 2.0	Mic-in / Line in	LAN	mPCIe Full / Half size	SATA	PCIe X1	POWER
PD10BI-J1900	J1900	1	1	1 / 1	2 / 5	1 / 1	1	1 / 1	2	1	DC-in Jack 8-19V

Packing List

Packing

- 1 x Motherboard
- 1 x I/O Bracket
- 1 x 50 cm SATA Cable
- 1 x 45 cm SATA Power Cable