

3.5" SBC Form Factor
Intel Apollo Lake

PD10AS



All Solid
Capacitor



Wide Temp.
Range



M.2
Support



High speed
USB 3.0
X4



DC-in
8V-24V

Features

Intel Apollo Lake-M N4200 / N3350 and Apollo Lake-I E3930 / E3940 / E3950 quad / dual cores processor

Intel HD graphics and DirectX 12 support

DDR3L with single connector for MAX. 8GB memory

Triple independent display from HD-Out, VGA-out, and eDP / LVDS connectivity

Features High speed dual Gigabit Ethernet connection

Four High Speed USB 3.0 ports support

Four RS232 support, 1 supports RS-232/422/485

One mPCIe connector for m-SATA or add-on card

One M.2 slot for wireless expansion

8V to 24V wide-range voltage input via internal power connector

Wide operating temperature from -40 to +85°C

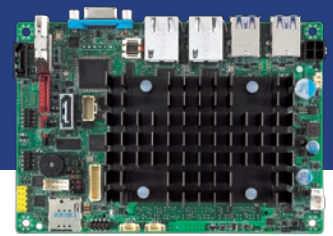


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Item	Spec	Sku-D	Sku-W	
Form Factor	3.5" single board computer, 4" x 5.8" (102mm x 147mm)			
Processor Chipset	Intel Apollo Lake Processor with integrated graphics	N3350 (Compatible with N4200)	E3930 (Compatible with E3940 / E3950)	
Main Memory	Support for DDR3L 1866 MHz SO-DIMM			
	Support for up to 8GB of system memory			
	204-pin DDR3L SO-DIMM		1	
Audio Controller	ALC662			
Expansion Capability	PCI Express Full-Length Mini Card slot (USB / PCIe / SATA)		1	
	M.2 (2230) with PCIe x 1 and USB 2.0 signal for wireless		1	
External I/O	USB 3.0		4	
	HD-out		1	
	VGA-out		1	
	RJ45 (1 st)		1	
	RJ45 (2 nd)		1	
	LVDS Connector (40Pin)		1	
	eDP Connector (40Pin)		1	
Internal I/O	7-pin SATA connector		1	
	Dual-port USB 2.0 header		1	
	Chassis main panel header (2 x 5)		1	
	BIOS Clear Header / Jumper		1	
	Audio header (front panel mic / hp)		1	
	3-pin SATA power (For DOM)		1	
	Serial Port Headers	4 (one supports RS-232/422/485)		
	Jumper for AT / ATX mode		1	
	SIM Card holder		1	
		MiAPI: Programmable header (support GPIO x 10, SMBUS x 1, UART x 1, Watchdog x 1) with API library supported for Windows OS		
	SI/O Controller	NCT6116D		
LAN Support	Intel I210 (10/100/1000 Mb/s) Ethernet LAN controller			
BIOS	BIOS resident in a Serial Peripheral Interface (SPI) Flash device			
	UEFI mode only (Does not support Legacy mode)			
	Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS)			
Hardware Management	Nuvoton NCT6116D			
	Voltage sense to detect out of range power supply voltages			
	Thermal sense to detect out of range thermal values			
Environment	Operating Temperature: RH 20~90% (no condensation)	0°C to +70°C	0°C to +70°C / -40°C to +85°C (Option)	
	Storage Temperature: -40°C to +85°C / RH 20~90% (no condensation)			
Safety	CE			
	FCC			
Operating System	Windows 10 64bit, Linux (support by request)			

Packing List

- PD10AS Mainboard
- Driver CD
- Quick Guide