

3.5" SBC Form Factor
Intel Apollo Lake

PD10AS



All Solid
Capacitor



Wide Temp.
Range



M.2
Support



High speed
USB 3.0



DC-in
8 V-24 V



DN2800MT
Transition

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 connectors for MAX. 8 GB memory

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

Features high speed Gigabit Ethernet connection

Four Hi-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

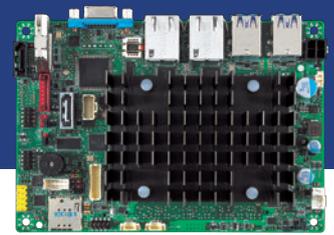
One M.2 slot for wireless expansion

8 V to 24 V 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 102 mm x 147 mm (4" x 5.8")		
Processor Chipset	Intel Apollo Lake Processor with integrated graphics	N3350 (Compatible with N4200)	E3930 (Compatible with E3940/E3950)
Main Memory	Single DDR3L 1867 SO-DIMMs slot Support for up to 8 GB of system memory		
Audio Controller	204-pin DDR3L SO-DIMM NAU8822LYG audio codec		1
Expansion Capability	PCI Express Full-Length Mini Card slot (USB/PCIe/SATA) M.2 (2230) with PCIe1 and USB2.0 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		1
	eDP		1
Internal I/O	7-pin SATA connector		1
	Dual-port USB2.0 header		1
	Chassis main panel header (2x5)		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)	
	Jump for AT/ATX mode		1
	SIM Card holder		1
	MiAPI Header		GPIO*10 SMBUS Watchdog timer UART
SI/O Controller	NCT6104D		
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 NCT6104D based subsystem, including: 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		

Packing List

- PD10AS Mainboard
- Driver CD
- Quick Guide