

PD10ANS**Product Specification**

General SPEC	
Form Factor	3.5" SBC
Processor	Intel® Alder Lake-N N97 (4C) / i3-N305 (8C8T)
Memory	DDR5 4800Mhz SO-DIMM Socket Support up to 16GB
Integrated Graphics	Intel® UHD Graphics (Up to 750MHz)
Display Interface	1 x DisplayPort 1.4a @60Hz (4096x2160)
	1 x HDMI 1.4 @30Hz (4096x2160)
	18/24 bits Dual Channel LVDS Co-Lay eDP (BOM Option)
LVDS	Chrontel® CH7513A-BF
Type	eDP to LVDS Bridge Controller
Embedded Controller	Nuvoton® NCT6126D
COM Ports	1 x RS232/422/485 Port
	3 x RS232 Port
WatchDog Timer	1 Sec ~ 255 Sec
H/W Monitor	Yes
TPM	Nuvoton NPCT760AABYX TPM2.0 (BOM Option)
Ethernet 1&2	Intel® i226V
Type	2 x PCIe 2.5 Gigabit Ethernet
Audio	Realtek® ALC256
Type	HD Audio Codec
BIOS	AMI® UEFI BIOS
Type	256Mb SPI BIOS
Expansion	
M.2	1 x 2230 M.2 E Key with CNVi Support (PCIe x1 & USB2.0)
	1 x 2280 M.2 M Key (PCIe x1, SATAIII)
	1 x 3052 & 3042 M.2 B Key with Nano SIM Socket (with PCIe x1, SATAIII, USB2.0)
Internal I/O	
COM	1 x RS-232/422/485 Header
	3 x RS-232 Header
MiAPI	Programmable header (support 10 x GPIO, 1 x SMBUS, 1 x UART, 1 x Watchdog) with API library supported for Windows OS
USB	2 x USB 2.0 Header
LVDS	1 x LVDS Header

eDP	1 x eDP Header (Optional)
Backlight	1 x Backlight Header
Fan	1 x 4 Pin CPU Fan Header
SATA	2 x SATA III Connector – 1 SATA port Multiplexed with M.2 B key SATA.
SATA Power	1 x 4 pin SATA Power Connector (3.3V, 5V, 12V) 1 x 3 pin SATA Power Connector (5V)
Speaker Header	1 x speaker header Header with amplifier
Audio Header	1 x Audio Header (Mic-in and Line-out)
Front Panel	1 x Front Panel Header
Buzzer	1 x Onboard Buzzer
CMOS Battery	1 x Cable Type Battery
DC-In	1 x 4 Pin DC-In Connector
Rear I/O	
DisplayPort	1 x DisplayPort1.4a 1 x HDMI1.4
LAN	2 x RJ-45 Connectors
USB	3 x USB 3.2 Gen2 Type A 1 x USB 3.2 Gen2 Type C (PD15W, 5V/3A, DP alt, USB3.2 Gen2)
Remote power on/off	2-pin remote power on/off header (terminal block type)
Power & Connector	8V~26V (tolerance 7.2~28.8V) DC-In (Mini-fit type)
Regulatory Compliance	CE, FCC
Operation Environment	
Temperature	-25~60°C
Humidity	10% to 95% non-condensing
Storage Environment	
Temperature	-40 C to 85 C
Humidity	10% to 95% non-condensing
Supported OS	Microsoft Windows 10/Windows 11 64-bit, Linux Ubuntu 22.04