



Features:

- Modular & Fanless designed, aluminum-magnesium alloy;
- Intel 12th Gen. Alder Lake-N series N97 processor, 4E-Core;
- Wide 10.1" TFT LCD Display, LED Backlit, WXGA 1280*800;
- High temp. 5-wires resistive touchscreen, EETI controller;
- DC 12/24 V Power input, optional wide DC 9~36V input;
- I/O interfaces: 2 GbE, 6 USB, 1 COM, 1 HDMI, 1 DP, Audio;
- Intel PTT TPM2.0, Support Windows 11 OS;
- Panel mount, VESA 75/100 mount, Front IP65 rated protection;
- Optional 2 M.2 fast speed expansion slots.

Specification



Hardware & System	BIOS	SPI AMI EEI BIOS
	CPU	Intel 12 th Gen. Alder Lake-N series N97 processor, up to 3.6Ghz, 4E-core, TDP=12W
	Graphic	Intel UHD Graphics (up to 24EUs, 1.2Ghz)
	Memory	SO-DIMM, Support DDR4 2666/2933/3200 Mhz; Single slot, max. up to 16GB
	Storage	1* M.2 2280 M-Key (PCIe1/SATA) SSD
	Network	1* Intel I226V, 1* Intel I210AT network chips (Optional wireless 3G/4G/LTE, Wi-Fi/BT, 5G/Wi-Fi 6)
	Audio	On-board Realtek ACL 897 Audio controller
	Expansion	1* M.2 B-Key 3042/3052 slot; 1* M.2 E-key 2230 slot
	Watch dog	0 ~ 256 seconds programmable
	Operating System	Win10/Win11 64bits; Linux, Ubuntu
I/O Interface	Ethernet	2 RJ45, 10/100/1000 Mbps
	COM	1* RS232 (DB9) by default (Optional 1*RS485)
	Audio	Mic-In/Line-out (2 in 1, 3.5mm Jack)
	USB	4* USB3.0, 2* USB2.0
	Display	1* HDMI (max. 4096*2160 @30Hz); 1* DP++ (max. 4096*2160 @60Hz)
	GPIO	Optional 8* GPIO (via 1* shared DB9)
	Power	1* 2 Pins, Phenix Terminal
LCD Display	Size/Type	Widescreen 10.1" TFT LCD Display
	Resolution	1280 * 800 (WXGA)
	Brightness	350 nits
	Backlit & Lifetime	LED Backlit & 30K hours
	Display Area	216.96* 135.6 (mm)
View Angle	85/85/85/85	
Touchscreen	Type	High temp. 5-wires precision resistive touchscreen
	Click Life	35 million times /250g
	Draw Life	5 million times /250g
	Surface Hardness	MOHS 6H
	Touch Controller	EETI
	Special Treatment	PET Film laminated (Flat design)
Structure	Structure & Surface	Magnesium-Aluminum alloy, sand blasting, anodized treated
	Cooling System	Large area finned heatsink (Fanless designed)
	Overall Dimension	259.0 * 177.0 * 54.5 (mm)
	Cut-out Dimension	253 * 171 (mm)
	Net Weight	3.0 KG
	Mount Method	Panel mount, VESA 75/100 Mount
	Operating temp.	-20 ~ + 70 (°C)

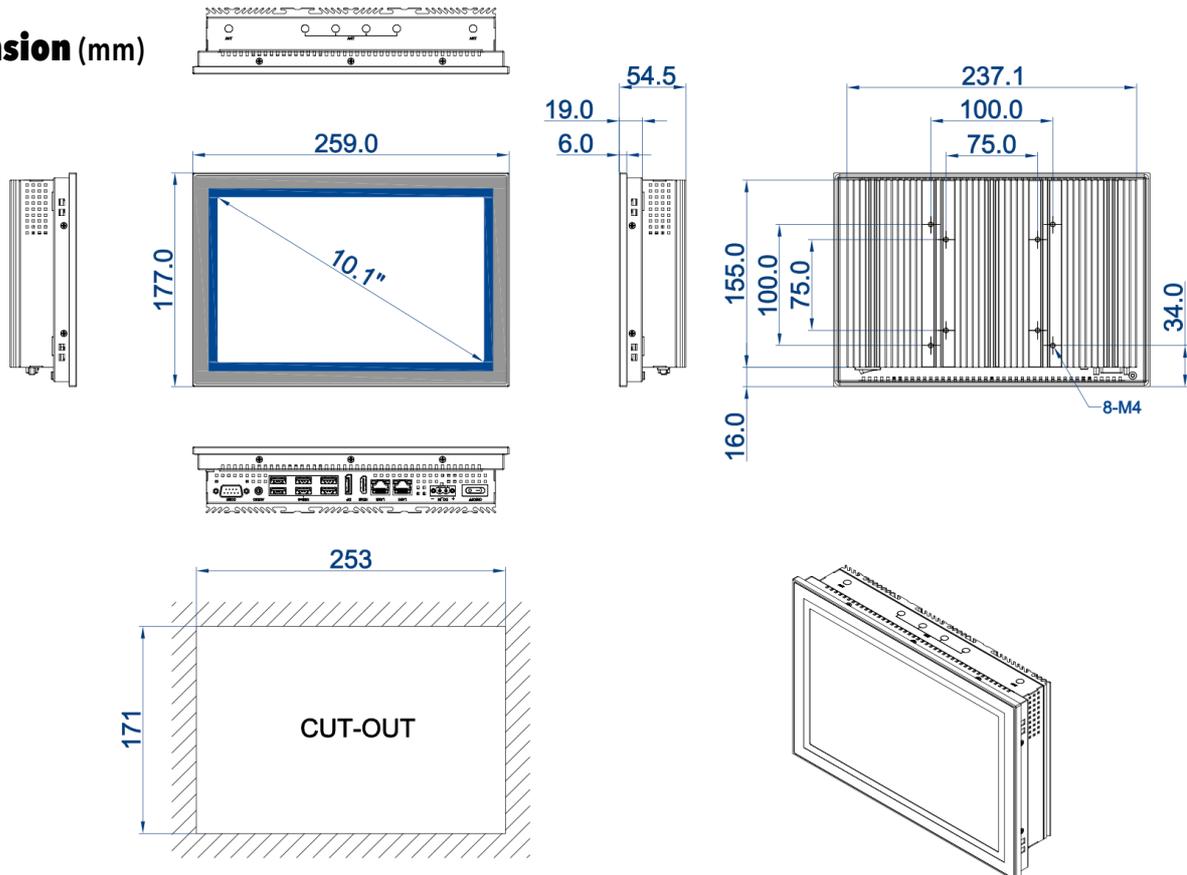
TPC-DRS101N1

Power & Environmental

Storage temp.	-30 ~ + 80 (°C)
Humidity	10 ~ 95% @ 10C (No condensation)
Vibration	50 ~ 500 Hz, 1.5G, 0.15mm peak to peak
Shock	10G/Peak (11 ms)
Power input	DC 12/24V Auto-detected (Optional wide voltage DC 9~36V)
Power consumption	About 35W
Certificate	CE/FCC/ROHS

DIMENSIONAL DRAWING:TPC-DRS101N/D

Dimension (mm)



DIMENSIONS IN MILLIMETERS

TAICEM
DATE:2025.04.07
REV:B Unit:mm

Ordering information

Part no.	Description	
TPC-DRS101N1	Wide 10.1" LCD, WXGA 1280*800, Intel N97 CPU, Resistive Touch, 2 GbE, 4 USB3.0, 2 USB2.0, 1 HDMI, 1 DP, 1 COM, DC 12/24V, PSU	
TPC-DRS101N1W	Wide 10.1" LCD, WXGA 1280*800, Intel N97 CPU, Resistive Touch, 2 GbE, 4 USB3.0, 2 USB2.0, 1 HDMI, 1 DP, 1 COM, DC 9~36V, No PSU by default	
Optional Accessories	Description	Packing List
Memory	SO-DIMM, DDR4, 4GB/8GB/16GB	Standard TPC-DRS101N1 Panel PC Product 1 set
Storage	M.2 SSD: 128GB/256GB/512GB/1TB/2TB	PSU (Power Supply) 1 set
Wireless	Wi-Fi Module with BT Integrated, With Antenna	Power Cable & Plug 1 set
	All Network 4G module, with Antenna & SIM card slot	Panel Mount Clips (Metal) 1 set (8 pieces)
	5G Network module, with Antenna & SIM card slot	
Power Supply	PSU for TPC-DRS101N1W (If needed)	