



Features:

- Intel® Processor Core™ 8-12th i3/i5/i7 & Ultra & Celeron J1900/J6412 & N97
- 18.5" Industrial display screen, multi point capacitive touch screen
- DDR4 or DDR5 (Depending on CPU)
- Optional dual band WiFi+BT/4G communication
- 4*USB + 4*RS232(optional RS485/RS422)
- 1*HDMI (Depending on CPU)
- 2*1Gbe LAN (Depending on CPU)
- Supports wide voltage power input (Depending on CPU)
- The left interface diagram is for reference only and may vary depending on the CPU.

Specifications:

System Hardware			
CPU	Intel® Processor Core™ 8-12th i3/i5/i7&	Memory	DDR4 or DDR5 (Depending on CPU,please
Watchdog	Ultra& Celeron J1900/J6412& N97		check order infomation below)
	0-255 seconds/grading implemented through	Storage	M.2 SATA/NVME
	system software		128GB/ 256GB/ 512GB/ 1T/ 2T/ 4T
Display			
LCD Type	18.5"	Luminance	300 cd/m²
Max. Resolution	1366*768/1920*1080	Screen lifespan	50000h
Touch Screen			
Touch Screen	18.5 "multi-point capacitive touch screen	hardness	6H
light transmission	>85%		
OS			
OS	Win10,Win11,Linux		
I/O Ports			
USB	4*USB (Optional more USBs based on	Audio	2 in 1 Audio
	different CPU, please check order infomation	Video	1*HDMI
	below)	Expansion Slot	Optional dual band WiFi+BT or 4G/5G
Serial port	4*RS232(Optional 1-4*RS485/422)	GPIO	Optional
		LAN	2*100/1000M

Power

Power Input	Standard Phoenix terminal 2pin input, supports wide voltage (Depending on CPU)
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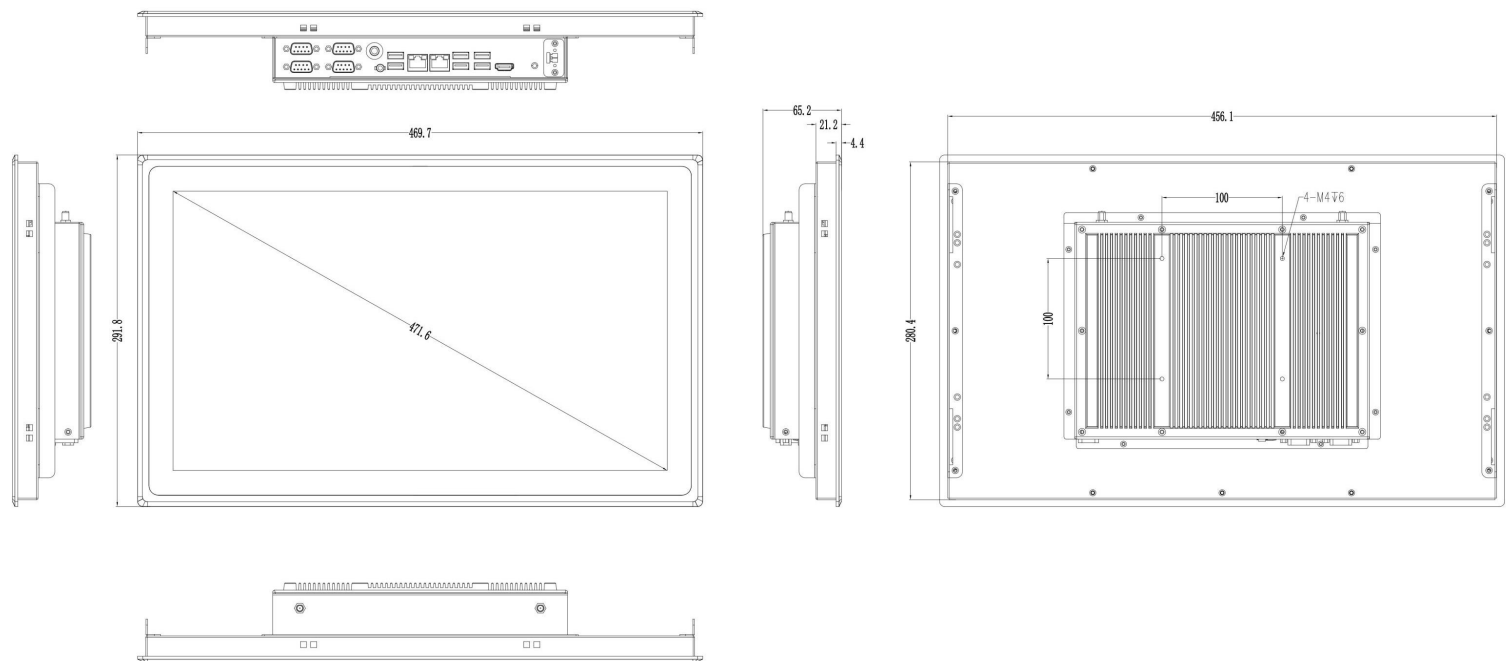
Environment

Vibration Protection	5-19Hz/1.0mm amplitude; 19-200Hz/1.0g acceleration	Operating Temp.	-10°C~60°C, Surface air flow
Shock Protection	10g acceleration, 11ms cycle	Storage Temp.	-20°C~70°C
Reliability	MTBF ≥ 30000h; MTTR ≤ 0.5h	Humidity	95% @ 40°C, no condensation
		IP Rating	Front panel IP65

Mechanical

Dimension (WxHxD)	470mm*292mm*65mm	Material	All metal fanless design
Weight	5.8kg/7kg(N.W./G.W.)	Mounting	VESA Installation: 100*100mm
Color	Black		Embedded Installation: 456mm*280mm

Dimensions:



Ordering Information:

Model	CPU	RAM	Storage SSD	Ethernet	USB	Input Voltage	Display Port	Notes
TY185-GS83AH	i3-8145U	1*DDR4 Max 32GB	Only MSATA	2*Intel I210AT	4*USB3.0 2*USB2.0	12V Optional 9-36V	1*HDMI Optional 1*VGA	The CPU/Ethernet type may change based on the market. Please consult the sales for the specific CPU before placing the order
TY185-GS85AH	i5-8265U							
TY185-GS113AH	i3-1115G4		M.2 SATA/NV ME	1*Intel I211AT 1*I219LM	6*USB3.0			
TY185-GS115AH	i5-1135G7							
TY185-GS117AH	i7-1165G7E							
TY185-GS123AH	i3-1215U	2*DDR5 MAX 64GB	M.2 SATA/NV ME Default NVME	1*Intel I219LM 1*I226V	4*USB3.0	9~28V	1*HDMI 1*DP	
TY185-GS125AH	i5-1235U							
TY185-GS127AH	i7-1255U							
TY185-GSU51HAH	Ultra 5 125H	1*DDR5 MAX 64GB	M.2 SATA/NV ME Default NVME	1*Intel I210AT 1*I226LM	4*USB3.0	12V Optional 9-36V	1*HDMI Optional 1*VGA	
TY185-GSU71HAH	Ultra 7 155H							
TY185-GSU72HAH	Ultra 7 165H							
TY185-GS51AH	J1900	1*DDR3L MAX 8GB	Only MSATA	2*Intel I210AT	1*USB3.0 3*USB2.0	12V Optional 9-36V	1*HDMI Optional 1*VGA	
TY185-GS53AH	J6412	1*DDR4 MAX 32GB	Only M.2 SATA	1*Intel I225-V 1*I210/I210 AT	4*USB3.0	9~28V	1*HDMI 1*DP	
TY185-GSN97AH	N97	MAX 64GB	M.2 SATA/NV ME	1*Intel I210AT 1*I226V		12V/24V Optional 9-36V		