TY121-GS12XB

12.1" Intel® Core™ 12th i3/i5/i7 & N97 Processor
Industrial Panel PC



Features:

- 12.1" Intel® Processor Core™ Alder Lake 12th Gen i3/i5/i7 & N-series N97
- Industrial display screen, multi point capacitive touch screen
- 2*SO-DIMM DDR4 (up to 64GB supported, max 16GB for N97)
- 2*USB 3.0+2*USB 2.0
- 1*RS232

Optional additional 3*RS232/485/422 on TOP(Max 2*RS485 or 1*RS485+1*RS422)

- 1*HD/1*VGA/2*RJ45/2*Audio
- Fanless design

Specifications:

System Hardware

CPU	Intel® Processor Core™ 12th Gen i3/i5/i7	Memory	DDR4 (optional 8/16/32/64GB,max 16GB for N97)
Watchdog	0-255 seconds/grading implemented through system software	Storage	M.2 2280 NVME SSD (optional 128/256/512GB/1T/2T/4T)

Display

LCD Type	12.1″	Luminance	300 cd/m²
Max. Resolution	1280*800	Contrast Ratio	1000: 1
Touchscreen Type	12.1" Multi point capacitive touch screen		

OS

OS	Windows 10/11、 Ubuntu

I/O Ports

USB	2*USB3.2，2*USB2.0(**optional** USB3.0)	Audio	1*Line out, 1*MIC in
Serial port	1*RS232 **Optional** additional 3*RS232/485/422 on TOP (Max 2*RS485 or 1*RS485+1*RS422)	Video	1*HDMI，1*VGA
		Expansion Slot	**Optional** dual band WIFI/BT, optional 4G/5G communication
LAN	2*1Gbe RJ45(Realtek)	SIM Card	**Optional** with 4G/5G
GPIO	**Customizable** 4in+4out+VCC+GND		

Power

Power Input	Standard Phoenix terminal(**Optional** Auto power on & 9-36V wide voltage input)

Environment

Vibration Protection	5-17Hz/1.0mm amplitude; 17-200Hz/1.0g acceleration	Operating Temp.	-10℃～60℃, Surface air flow
		Storage Temp.	-20℃～70℃
Shock Protection	10g acceleration, 11ms cycle	Humidity	95% @ 40℃, no condensation
Reliability	MTBF ≥ 30000h; MTTR ≤ 0.5h	IP Rating	Front panel IP65

Mechanical

Dimension (WxHxD)	315.8mm*218mm*52.9mm	Material	All metal fanless design
Weight	3.5kg/3.9kg(N.W./G.W.)	Mounting	VESA Installation: 75*75mm/100*100mm
Color	Black		Embedded Installation: 302.10mm*204.30mm

Ordering Information:

Serial Number	Model	CPU	Notes
1	TY121-GS123B	i3-1215U	The CPU may change based on the market Please consult the sales for the specific CPU before placing the order
2	TY121-GS125B	i5-1235U	
3	TY121-GS127B	i7-1255U	
4	TY121-GSN97B	N97	

Dimensions:

