TY121-GSXXAH

12.1" Intel® Processor
Industrial Panel PC



Features:

- Intel® Processor Core™ 8-12th i3/i5/i7 & Ultra & Celeron J1900/J6412 & N97
- 12.1" 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 lef 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& Ultra& Celeron J1900/J6412& N97	Memory	DDR4 or DDR5 (Depending on CPU,please check order infomation below)
Watchdog	0-255 seconds/grading implemented through system software	Storage	M.2 SATA/NVME 128GB/ 256GB/ 512GB/ 1T/ 2T/ 4T

Display

LCD Type	12.1″	Luminance	500 cd/m²
Max. Resolution	1280*800	Screen lifespan	50000h

Touch Screen

Touch Screen	12.1 "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 different CPU, please check order infomation below)	Audio	2 in 1 Audio
		Video	1*HDMI
		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)

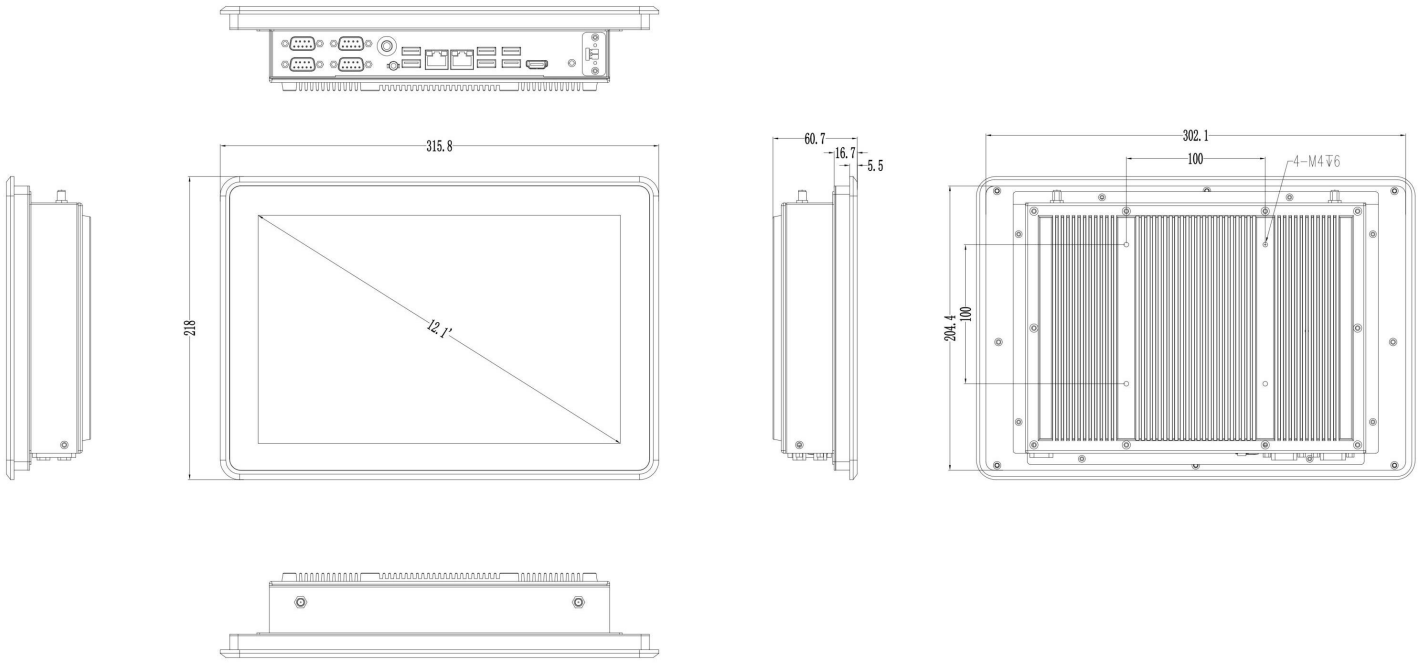
Environment

Vibration Protection	5-19Hz/1.0mm amplitude; 19-200Hz/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)	316mm*218mm*61mm	Material	All metal fanless design
Weight	3.5kg/4kg(N.W./G.W.)	Mounting	VESA Installation: 100*100mm
Color	Black		Embedded Installation: 302mm*204mm

Dimensions:



Ordering Information:

<table>
<tr><th>Model</th><th>CPU</th><th>RAM</th><th>Storage SSD</th><th>Ethernet</th><th>USB</th><th>Input Voltage</th><th>Display Port</th><th>Notes</th></tr>
<tr><td>TY121-GS83AH</td><td>i3-8145U</td><td rowspan="5">1*DDR4 Max 32GB</td><td rowspan="2">Only MSATA</td><td rowspan="2">2*Intel I210AT</td><td rowspan="2">4*USB3.0 2*USB2.0</td><td rowspan="2">12V Optional 9-36V</td><td rowspan="5">1*HDMI Optional 1*VGA</td><td rowspan="15">The CPU/Ethernet type may change based on the market.

Please consult the sales for the specific CPU before placing the order</td></tr>
<tr><td>TY121-GS85AH</td><td>i5-8265U</td></tr>
<tr><td>TY121-GS113AH</td><td>i3-1115G4</td><td rowspan="3">M.2 SATA/NVME</td><td rowspan="3">1*Intel I211AT 1*I219LM</td><td rowspan="3">6*USB3.0</td></tr>
<tr><td>TY121-GS115AH</td><td>i5-1135G7</td></tr>
<tr><td>TY121-GS117AH</td><td>i7-1165G7E</td></tr>
<tr><td>TY121-GS123AH</td><td>i3-1215U</td><td rowspan="3">2*DDR5 MAX 64GB</td><td rowspan="3">M.2 SATA/NVME Default NVME</td><td rowspan="3">1*Intel I219LM 1*I226V</td><td rowspan="3">4*USB3.0</td><td rowspan="8">9~28V</td><td rowspan="6">1*HDMI 1*DP</td></tr>
<tr><td>TY121-GS125AH</td><td>i5-1235U</td></tr>
<tr><td>TY121-GS127AH</td><td>i7-1255U</td></tr>
<tr><td>TY121-GSU51HAH</td><td>Ultra 5 125H</td><td rowspan="3">1*DDR5 MAX 64GB</td><td rowspan="3">M.2 SATA/NVME Default NVME</td><td rowspan="3">1*Intel I210AT 1*I226LM</td><td rowspan="3">4*USB3.0</td></tr>
<tr><td>TY121-GSU71HAH</td><td>Ultra 7 155H</td></tr>
<tr><td>TY121-GSU72HAH</td><td>Ultra 7 165H</td></tr>
<tr><td>TY121-GS51AH</td><td>J1900</td><td>1*DDR3L MAX 8GB</td><td>Only MSATA</td><td>2*Intel I210AT</td><td>1*USB3.0 3*USB2.0</td><td>12V Optional 9-36V</td><td>1*HDMI Optional 1*VGA</td></tr>
<tr><td>TY121-GS53AH</td><td>J6412</td><td>1*DDR4 MAX 32GB</td><td>Only M.2 SATA</td><td>1*Intel I225-V 1*I210/I210AT</td><td rowspan="2">4*USB3.0</td><td>9~28V</td><td rowspan="2">1*HDMI 1*DP</td></tr>
<tr><td>TY121-GSN97AH</td><td>N97</td><td>MAX 64GB</td><td>M.2 SATA/NVME</td><td>1*Intel I210AT 1*I226V</td><td>12V/24V Optional 9-36V</td></tr>
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