



Features:

- 12.1" Intel® Processor Core™ 7/8th Gen i3/i5/i7
 - Industrial display screen, multi point capacitive touch screen
 - 2*SO-DIMM DDR4
 - 4*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/4*RJ45/1*Audio
 - Fanless design

Specifications:

System Hardware

CPU	Intel® Processor Core™ 7/8th Gen i3/i5/i7	Memory	2*SO-DIMM DDR4 (Refer to order information)
Watchdog	0-255 seconds/grading implemented through system software	Storage	MSATA/ M.2 2280 SATA/NVME SSD (optional 128/256/512GB/1T/2T/4T) (Refer to order information)

Display

LCD Type	12.1"	Luminance	300 cd/m ²
Max. Resolution	1280*800	Contrast Ratio	1000: 1
Touchscreen Type	12.1" Multi Point Capacitive Touch Screen		

OS

OS	Windows 10/11、 Ubuntu
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I/O Ports

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

Power

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

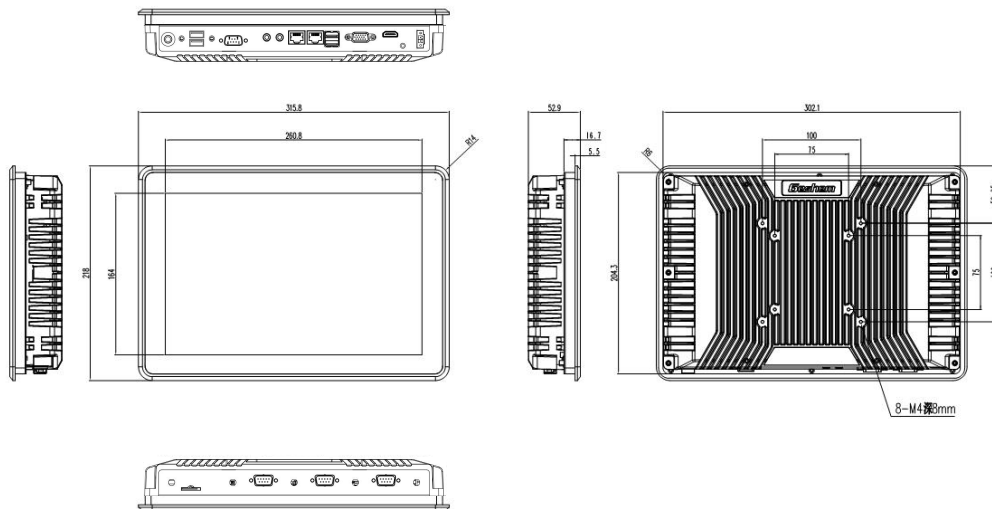
Environment

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

Dimensions:



Ordering Information:

Model	CPU	RAM	Storage SSD	Ethernet	Notes
TY121-GS75MVY	I5-7360U	1*DDR3L MAX 32GB	1*MSATA 1*M.2 NVME/SATA	Intel I210AT	The CPU may change based on the market. Please consult the sales for the specific CPU before placing the order
TY121-GSN97MVY	N97 (Only 2 USB 3.0 ports)		1*M.2 NVME/SATA		
TY121-GS85MVY	I5-8257U	2*DDR4 MAX 64GB	1*M.2 NVME/SATA		
TY121-GS87MVY	I7-8665U				