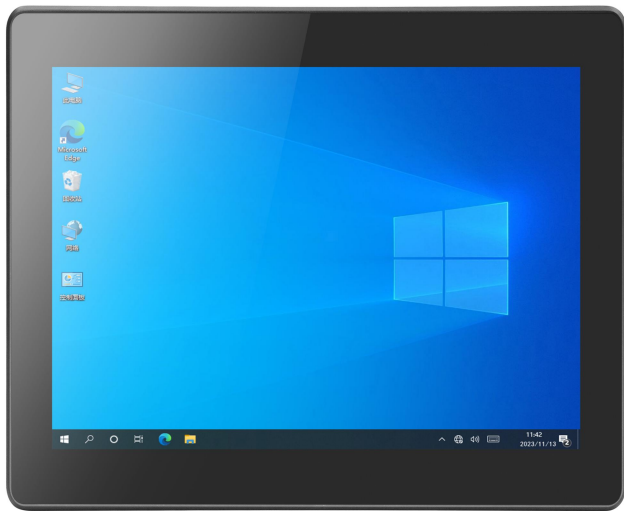


# TY170-GS12XB

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



## Features:

- 17" 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         | 17"                                     | Luminance      | 300 cd/m <sup>2</sup> |
| Max. Resolution  | 1280*1024                               | Contrast Ratio | 1000: 1               |
| Touchscreen Type | 17" 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                                                                            | Video          | 1*HDMI, 1*VGA                                                   |
|             | <b>Optional</b> additional 3*RS232/485/422 on TOP (Max 2*RS485 or 1*RS485+1*RS422) | Expansion Slot | <b>Optional</b> dual band WIFI/BT, optional 4G/5G communication |
| LAN         | 2*1Gbe RJ45(Realtek)                                                               | SIM Card       | <b>Optional</b> with 4G/5G                                      |
| GPIO        | <b>Customizable</b> 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 |
| 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) | 398mm*323.6mm*53.2mm   | Material | All metal fanless design             |
| Weight            | 4.6kg/5.1kg(N.W./G.W.) | Mounting | VESA Installation: 75*75mm/100*100mm |
| Color             | Black                  |          | Embedded Installation: 384mm*314mm   |

## Ordering Information:

| Serial Number | Model        | CPU      | Notes                                                                                                            |
|---------------|--------------|----------|------------------------------------------------------------------------------------------------------------------|
| 1             | TY170-GS123B | i3-1215U | The CPU may change based on the market<br>Please consult the sales for the specific CPU before placing the order |
| 2             | TY170-GS125B | i5-1235U |                                                                                                                  |
| 3             | TY170-GS127B | i7-1255U |                                                                                                                  |
| 4             | TY170-GSN97B | N97      |                                                                                                                  |

## Dimensions:

