

# TY238-GSXXY

23.8" Intel® Core™ 3-14th i3/i5/i7 & N97/N100

Processor

Industrial Panel PC



## Features:

- 23.8" Intel® Processor Core™ 3-14th Gen i3/i5/i7 & N-series N97/N100
  - Industrial display screen, multi point capacitive touch screen
  - 2\*SO-DIMM DDR4
  - 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™ 3-14th Gen i3/i5/i7 & N-series N97/N100 | Memory  | 2*SO-DIMM DDR4                                                  |
| Watchdog | 0-255 seconds/grading implemented through system software      | Storage | MSATA/ M.2 2280 SATA/NVME SSD (optional 128/256/512GB/1T/2T/4T) |

### Display

|                  |                                           |                |                       |
|------------------|-------------------------------------------|----------------|-----------------------|
| LCD Type         | 23.8"                                     | Luminance      | 300 cd/m <sup>2</sup> |
| Max. Resolution  | 1920*1080                                 | Contrast Ratio | 1000: 1               |
| Touchscreen Type | 23.8" Multi point capacitive touch screen |                |                       |

### OS

|    |                       |
|----|-----------------------|
| OS | Windows 10/11、 Ubuntu |
|----|-----------------------|

### I/O Ports

|             |                                                                                    |                |                                                                        |
|-------------|------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------|
| USB         | 2*USB3.0, 2*USB2.0 (Optional more USBs)                                            | 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, <b>Optional</b> 4G/5G communication |
| LAN         | 2*1Gbe RJ45                                                                        | SIM Card       | <b>Optional</b> with 4G/5G                                             |
| GPIO        | <b>Customizable</b>                                                                |                |                                                                        |

Power

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

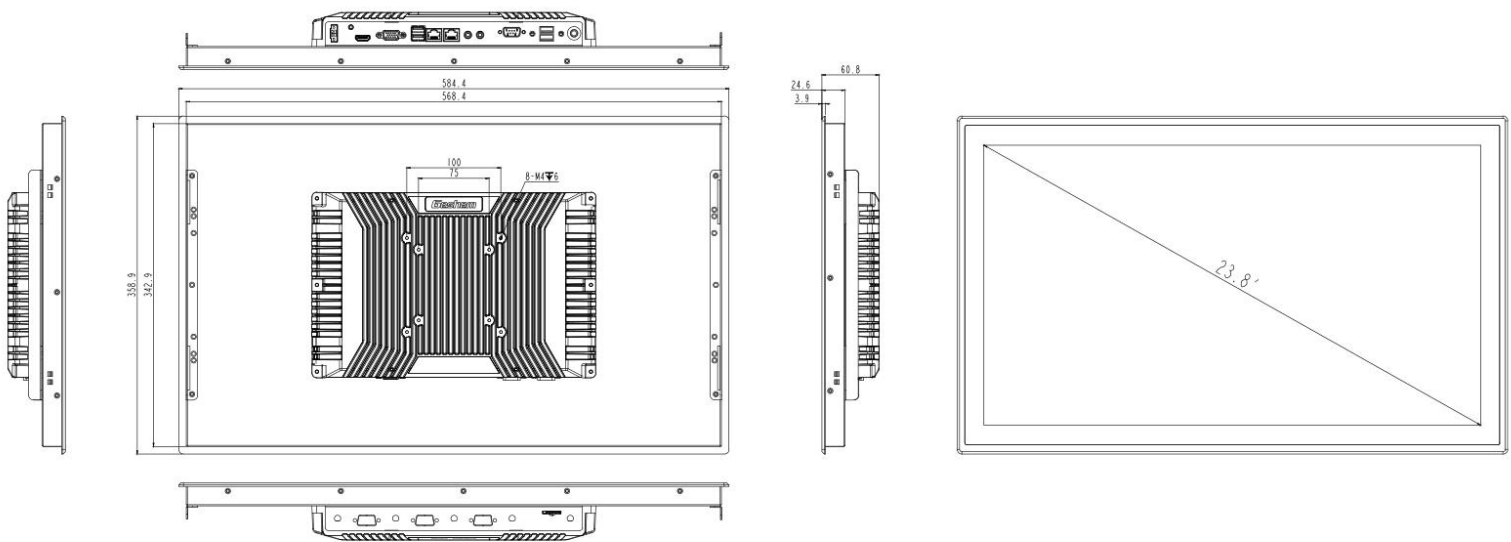
Environment

|                      |                                                    |                 |                            |
|----------------------|----------------------------------------------------|-----------------|----------------------------|
| 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) | 584.4mm*358.9mm*60.8mm | Material | All metal fanless design               |
| Weight            | 8.5kg/9kg(N.W./G.W.)   | Mounting | VESA Installation: 75*75mm/100*100mm   |
| Color             | Black                  |          | Embedded Installation: 568.4mm*342.9mm |

Dimensions:



## Ordering Information:

| Model         | CPU        | RAM                 | Storage SSD                                                | Ethernet                  | Notes                                                                                                                                   |
|---------------|------------|---------------------|------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TY238-GS51Y   | J1900      | 1*DDR3L<br>Max 8GB  | 1*MSATA                                                    | 2*RTL8111H                |                                                                                                                                         |
| TY238-GS53Y   | J6412      | 1*DDR4<br>MAX 16GB  | Only MSATA<br>/M.2 NVME                                    |                           |                                                                                                                                         |
| TY238-GSN97Y  | N97        |                     |                                                            |                           |                                                                                                                                         |
| TY238-GSN100Y | N100       |                     |                                                            |                           |                                                                                                                                         |
| TY238-GS35Y   | I5-3210M   | 1*DDR3L<br>Max 8GB  | 1*MSATA                                                    | 2*RTL8111H                | The CPU <b>may change</b><br>based<br>on the market.<br>Please consult the sales<br>for<br>the specific CPU before<br>placing the order |
| TY238-GS45Y   | I5-4300U   | 1*DDR3L<br>Max 8GB  |                                                            |                           |                                                                                                                                         |
| TY238-GS65Y   | i5-6300U   | 2*DDR4<br>Max 32GB  |                                                            |                           |                                                                                                                                         |
| TY238-GS65Y2  | i5-6300U   | 2*DDR3L<br>MAX 16GB |                                                            |                           |                                                                                                                                         |
| TY238-GS67Y   | i7-6500U   | 2*DDR4<br>Max 32GB  | 1*mSATA<br>1*M.2 2280<br>Supports<br>NVMe/SATA<br>adaptive | 2*Intel I210AT            |                                                                                                                                         |
| TY238-GS75Y   | i5-7300U   |                     |                                                            | 2*RTL8111H                |                                                                                                                                         |
| TY238-GS77Y   | i7-7600U   |                     |                                                            |                           |                                                                                                                                         |
| TY238-GS85Y   | i5-8265U   | 2*DDR4<br>Max 64GB  |                                                            |                           |                                                                                                                                         |
| TY238-GS87Y   | i7-8565U   |                     |                                                            |                           |                                                                                                                                         |
| TY238-GS103Y  | i3-10110U  |                     |                                                            |                           |                                                                                                                                         |
| TY238-GS105Y  | i5-10310U  |                     |                                                            |                           |                                                                                                                                         |
| TY238-GS107Y  | i7-10710U  |                     |                                                            |                           |                                                                                                                                         |
| TY238-GS115Y  | i5-1135G7  |                     | 1* M.2 2280<br>Supports<br>NVMe/SATA<br>adaptive           | 2*Intel I210              |                                                                                                                                         |
| TY238-GS117Y  | i7-1195G7  |                     | 2*Intel I226V                                              |                           |                                                                                                                                         |
| TY238-GS123Y  | i3-1215U   |                     | 1* M.2 2280<br>Only supports NVMe                          | <b>Only</b> 1*Intel I226V |                                                                                                                                         |
| TY238-GS125Y  | i5-1235U   |                     |                                                            | 2*Intel I226V             |                                                                                                                                         |
| TY238-GS127Y  | i7-1255U   |                     |                                                            | 2*RTL8111H                |                                                                                                                                         |
| TY238-GS125HY | Ultra 125H |                     |                                                            |                           |                                                                                                                                         |