

# SP-112 SERIES

Front IP65 Silver Aluminum  
Touch IPC

## Features

Intel® Elkhart Lake SoC Processors J6412  
Fanless and rugged design  
Display Size: 12" / 15" / 15.6" / 17" / 17.3" / 18.5" / 19" / 21.5" / 24"  
5 Wires Resistive touch solution  
IP65 Silver aluminum front bezel  
2 x USB, 2 x RS232, 2 x GLAN, 1 x HDMI, 1 x VGA, 1 x DP  
VESA mount & Panel mount & Clip mount  
DC in 9V~36V



## Specifications

### Display for 3:4 Ratio

| Size             | 12.1" TFT  | 15" TFT    | 17" TFT     | 19" TFT     |
|------------------|------------|------------|-------------|-------------|
| Resolution       | 1024 x 768 | 1024 x 768 | 1280 x 1024 | 1280 x 1024 |
| Colors           | 16.7M      | 16.7M      | 16.7M       | 16.7M       |
| Luminance        | 350 cd/m2  | 300 cd/m2  | 350 cd/m2   | 250 cd/m2   |
| Contrast Ratio   | 800:1      | 2500:1     | 1000:1      | 1000 : 1    |
| View Angle (H/V) | 160°/160°  | 176°/176°  | 170°/160°   | 170°/160°   |

### Display for 16:9 Ratio

| Size             | 15.6" TFT  | 17.3" TFT   | 18.5" TFT             | 21.5" TFT             | 24" TFT               |
|------------------|------------|-------------|-----------------------|-----------------------|-----------------------|
| Resolution       | 1366 x 768 | 1920 x 1080 | 1920*1080             | 1366 x 768            | 1920*1080             |
| Colors           | 16.7M      | 16.7M       | 16.7M                 | 16.7M                 | 16.7M                 |
| Luminance        | 400 cd/m2  | 400 cd/m2   | 400 cd/m <sup>2</sup> | 250 cd/m <sup>2</sup> | 350 cd/m <sup>2</sup> |
| Contrast Ratio   | 500 : 1    | 700 : 1     | 600 : 1               | 1000 : 1              | 1000 : 1              |
| View Angle (H/V) | 170°/160°  | 160°/140°   | 160°/140°             | 170°/160°             | 178°/178°             |

### SYSTEM

| CPU        | Intel® Elkhart Lake SoC Processors J6412                            |
|------------|---------------------------------------------------------------------|
| Memory     | 2 x 260-pin DDR4 3200MHz SODIMM up to 32 GB (16GB per DIMM)         |
| Storage    | 1 x SATA 3.0 / 1 x M.2 (Key M, 3042/3060/2280) with PCIe x1 for SSD |
| OS Support | Windows 10 Pro / Windows 10 IoT<br>Windows 11 Pro / Windows 11 IoT  |
| TPM        | TPM 2.0 onboard IC                                                  |

### I/O Ports

| * The I/O interface shown may vary depending on the selected motherboard. |   |              |   |
|---------------------------------------------------------------------------|---|--------------|---|
| RS232/422/485                                                             | 2 | USB 2.0      | 1 |
| VGA                                                                       | 1 | USB 3.2 Gen2 | 1 |
| HDMI                                                                      | 1 | GLAN         | 1 |

### Expansion Slot

| M.2 | 1 x M.2 ( Key E, 2230 ) with PCIe x1 and USB 2.0 for WiFi optional<br>1 x M.2 ( Key B, 3042/3052 ) with PCIe x1 / USB 3.2 and USB 2.0 and SIM for 4G / 5G |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

### MECHANICAL & ENVIRONMENTAL

| Operation Temp.  | 0 ~ 45°C                 |
|------------------|--------------------------|
| Storage Humidity | 10 ~ 90%, non-condensing |

### Form Factor

| Touch Screen | 5 Wires Resistive ( Single touch )                                      |
|--------------|-------------------------------------------------------------------------|
| Mounting     | VESA mount ( 75 X 75 mm ) / ( 100 X 100 mm ) & Panel mount & Clip mount |
| Power Supply | 3 Pin power terminal block for DC-In 9V~36V                             |

