

# ST610W

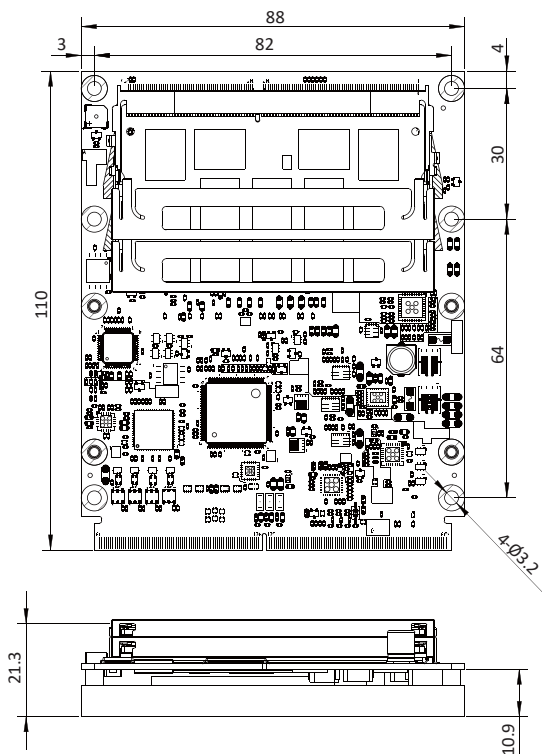
SMART Computer on Module supports  
6th / 7th Gen Intel® Skylake-U / Kaby Lake-U CPU  
VGA, HDMI, LVDS, Touch, 2 x Intel Gb Ethernet  
7 x USB, 4 x COM, 8DI / 8DO, 4 x PCIe



## Features:

- 6th / 7th Gen Intel® Skylake-U / Kaby Lake-U, i7 / i5 / i3 / Celeron CPU
- 2 x DDR4 SODIMM socket, Max. 64GB
- Multiple Independent display: VGA, HDMI & LVDS
- 2 x Intel GbE LAN, 2 x USB 3.0, 5 x USB 2.0, 8DI / 8DO
- 4 x COM, 4 x PCIe

## Dimensions: (Unit:mm)



## Specifications :

- CPU  
6th / 7th Gen Intel® Skylake-U / Kaby Lake-U, i7 / i5 / i3 / Celeron CPU
- MB Chipset  
Intel® Skylake-U / Kaby Lake-U SoC
- Graphics  
Intel® HD Graphics, Support DirectX 12 & OpenGL 4.4 / 4.5
- System Memory  
2 x DDR4 1866 / 2133 MHz SODIMM, Max. 64GB
- Storage  
2 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (600 MB/s)
- BIOS  
Insyde UEFI BIOS
- Display  
1 x VGA, 1 x HDMI, Dual Channel, 48 bits LVDS
- Touch  
USB touch screen controller
- LAN  
2 x Intel GbE (internal)
- Audio  
High Definition Audio Specification, Support Line-out / Mic-in / Line-in  
Two channel Class D Audio Amplifier
- Expansion Interface  
4 x PCIe 1x

### Expansion Module

#### ST001:

4 x COM, 2 x GbE, VGA, HDMI, LVDS, 4 x USB,  
7 x PCIe mini card, 3 x SIM socket, Audio

- USB  
2 x USB 3.0 (internal), 5 x USB 2.0 (internal)
- Serial IO  
4 x RS232 / 422 / 485 (internal)
- GPIO  
Hardware digital Input & Output, 8 x DI / 8 x DO
- WDT  
Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input  
Wide Range +9~36V
- Dimension  
88 x 110 mm
- Operation Temperature (100 % CPU Usage)  
-20°C~70°C (Core i7 6600U)
- Operation Humidity  
5~95%, non-condensing
- OS Support

#### 7th Generation Intel® Core™ Processor family: Kaby Lake

Windows® 10 IOT (64bit)

Ubuntu 16.04.3 above, Fedora 26 above, CentOS 7.4 above

#### 6th Generation Intel® Core™ Processor family: Skylake

Windows® 10 IOT (64bit) / Windows® 8.1 (64bit)

Windows® Embedded 8 Standard (64bit) / Windows® 7 (64bit)

Windows® Embedded Sta 7 (64bit)

Ubuntu 16.04.3 above, Fedora 26 above, CentOS 7.4 above