

# SPC-3030

Ultra-compact Embedded System with Intel® Core™ i7/ i5/ i3 Processor (Skylake-U), -40°C to 70°C, 4 GigE LAN, 2 SSD, 1 SIM, 4 USB 3.0, 9 COM, Isolated DIO, Fanless, Rugged, Extended Temperature



## Features

- Intel® Core™ i7/ i5/ i3 U-series SoC (Skylake-U)
- Fanless design, -40°C to 70°C Operating Temperature
- 9V to 36V DC Power Input, 16 Isolated DIO
- DDR4 2133MHz memory, up to 16GB
- Onboard DVI-D and DisplayPort display interfaces support up to 4K resolution
- Up to 5 Independent GigE LAN, iAMT 11.0 supported
- SIM socket for 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- 4 USB 3.0, 9 COM RS-232/ 422/ 485
- Optional supports full function SUMIT A, B expansions
- One-stop SUMIT Expansion Design and Manufacturing Services



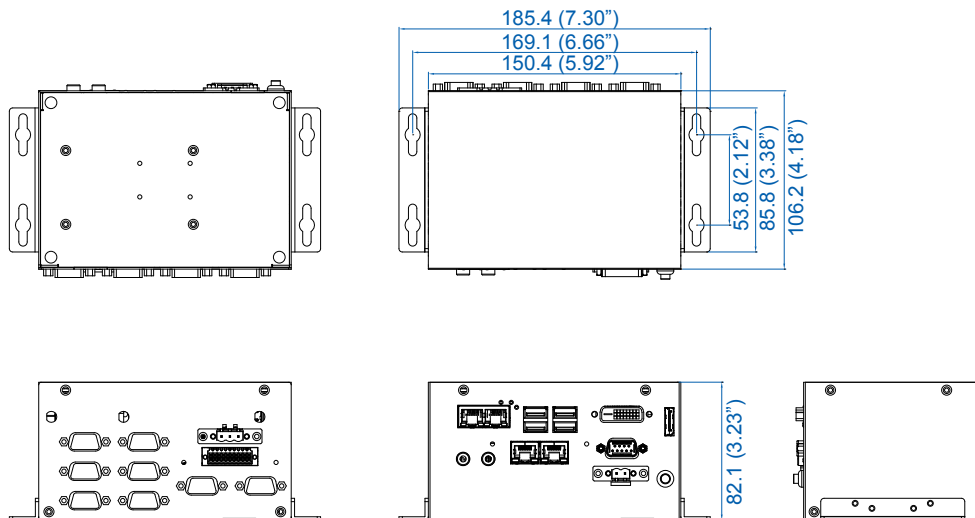
## Specifications

| System             |  |
|--------------------|--|
| Processor          | Intel® Core™ i7-6600U (Skylake-U)  |
| Chipset            | Intel® SoC (Skylake)   |
| BIOS               | AMI  |
| SIO                | IT8786E  |
| Memory             | 1 DDR4 2133MHz SO-DIMM, up to 16GB   |
| I/O Interface      |  |
| Serial             | 9 COM RS-232/ 422/ 485   |
| USB 3.0            | 4 USB 3.0 (External)   |
| USB 2.0            | 4 USB 2.0 (Internal)   |
| Isolated DIO       | 16 Isolated DIO : 8 DI, 8 DO   |
| LED                | Power, HDD   |
| SIM Card           | 1 SIM Card Socket (Internal)   |
| Expansion          |  |
| Mini PCIe          | 2 Mini PCIe Socket :<br>▪ 1 Full-size for PCIe/ USB/ Internal SIM Card<br>▪ 1 Full-size for PCIe/ USB/ mSATA |
| SUMIT A, B         | 2 SUMIT Slot (Optional)  |
| Graphics           |  |
| Graphics Processor | Intel® HD Graphics 520   |
| Interface          | ▪ DVI-D : Up to 1920 x 1200 @ 60Hz<br>▪ DisplayPort : Up to 4096 x 2304 @ 60Hz                               |
| Storage            |  |
| SATA               | 2 SATA III (6Gbps)   |
| mSATA              | 1 SATA III (Mini PCIe Type, 6Gbps)   |
| Storage Device     | 2 2.5" SSD/ HDD Bracket (Internal)   |
| Audio              |  |
| Audio Codec        | Realtek ALC892, 5.1 Channel HD Audio   |
| Audio Interface    | 1 Mic-in, 1 Line-out   |
| Ethernet           |  |
| LAN 1              | Intel® I219LM GigE LAN supports iAMT 11.0  |
| LAN 2              | Intel® I210 GigE LAN   |
| LAN 3              | Intel® I210 GigE LAN   |
| LAN 4              | Intel® I210 GigE LAN   |

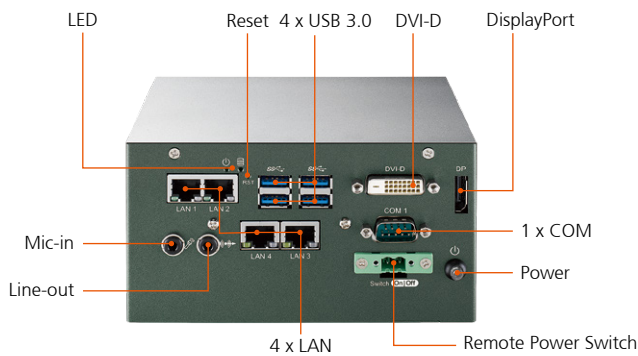
| Power                  |   |
|------------------------|---|
| Power Input            | 9V to 36V, DC-in  |
| Power Interface        | 3-pin Terminal Block : V+, V-, Frame Ground                                   |
| Remote Switch          | 2-pin Terminal Block : On, Off  |
| Others                 |   |
| Watchdog Timer         | Reset : 1 to 255 sec./min. per step   |
| Smart Management       | Wake on LAN, PXE supported  |
| HW Monitor             | Monitoring temperature, voltages. Auto throttling control when CPU overheats. |
| Software Support       |   |
| OS                     | Windows 10, Windows 8.1, Windows 7, Linux                                     |
| Mechanical             |   |
| Dimensions (W x L x H) | 150mm x 106mm x 82mm (5.92" x 4.18" x 3.23")                                  |
| Weight                 | 1.7 kg (3.8 lb)   |
| Mounting               | ▪ Wallmount by mounting bracket<br>▪ DIN Rail Mount (Optional)                |
| Environment            |   |
| Operating Temperature  | -40°C to 70°C (-40°F to 158°F)  |
| Storage Temperature    | -40°C to 85°C (-40°F to 185°F)  |
| Humidity               | 5% to 95% Humidity, non-condensing  |
| Relative Humidity      | 95% @ 70°C  |
| Shock                  | ▪ IEC 60068-2-27<br>▪ SSD : 50G @ wallmount, Half-sine, 11ms                  |
| Vibration              | ▪ IEC 60068-2-64<br>▪ SSD : 5Grms, 5Hz to 500Hz, 3 Axis                       |
| Certification          | CE, FCC, EN50155, EN50121-3-2   |

## Dimensions

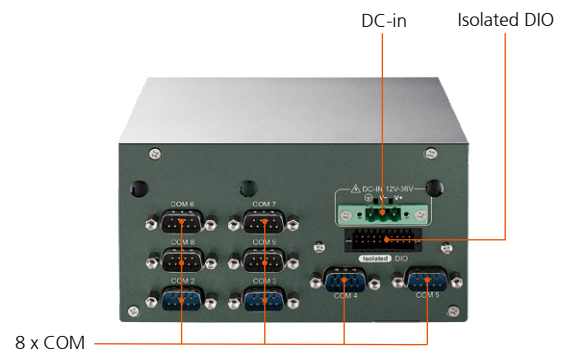
Unit : mm/ inch



## Front I/O



## Rear I/O



## Order Information

|                                    |   |
|------------------------------------|---|
| <b>SPC-3030-600U</b>               | SPC-3000, Intel® Core™ i7-6600U, 4 GigE LAN, 2 SSD, 4 USB 3.0, 9 COM, 1 SIM, Isolated DIO             |
| <b>DDR4 16G</b>                    | Certified DDR4 16GB 2133MHz RAM   |
| <b>DDR4 8G</b>                     | Certified DDR4 8GB 2133MHz RAM  |
| <b>DDR4 4G</b>                     | Certified DDR4 4GB 2133MHz RAM  |
| <b>PWA-160W-WT</b>                 | 160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C |
| <b>PWA-120W</b>                    | 120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block                                  |
| <b>TMK2-20P-100</b>                | Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm   |
| <b>TMK2-20P-500</b>                | Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm   |
| <b>TMB-TMBK-20P</b>                | Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting                         |
| <b>VESA Mount</b>                  | VESA Mounting Kit   |
| <b>DIN-RAIL</b>                    | DIN Rail Kit  |
| <b>3G Module</b>                   | Mini PCIe 3G/GPS Module with Antenna  |
| <b>4G Module</b>                   | Mini PCIe 4G/GPS Module with Antenna  |
| <b>WiFi &amp; Bluetooth Module</b> | Intel® Mini PCIe WiFi & Bluetooth Module with Antenna   |