

# SPC-3071

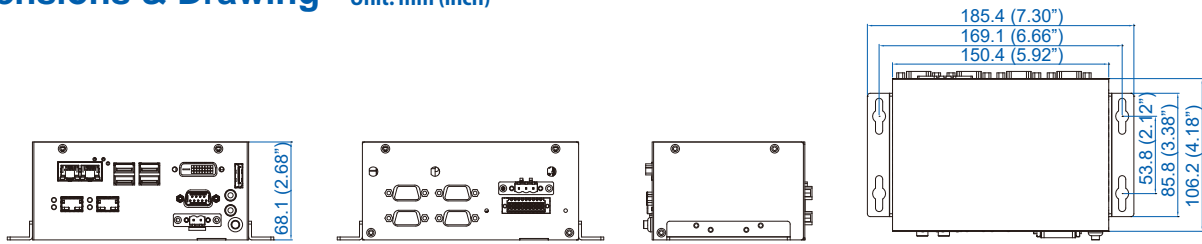
Intel® Core™ i7/i5/i3 U-series Processor (Skylake-U) Ultra-compact Embedded Box PC, 2 GigE LAN, 2 10GigE SFP+ LAN, 2 SSD, 1 SIM, 4 USB 3.0, 5 COM, 16 Isolated DIO, High Performance, Fanless, EN50155, EN50121



- Intel® Core™ i7/i5/i3 U-series SoC (Skylake-U)
- DDR4 2133MHz memory, up to 32GB
- Onboard DVI-D and DisplayPort display interfaces support up to 4K resolution
- 9V to 36V DC Power Input
- 16 Isolated DIO
- Dual 10GigE SFP+ LAN, up to 10Gbps data rate
- 2 Independent GigE LAN, iAMT 11.0
- 4 USB 3.0, 5 COM RS-232/422/485
- Supports 3G/4G/LTE/WiFi/GPRS/UMTS
- All-in-one integrated, Compact, Cableless



# Dimensions & Drawing Unit: mm (inch)



## Specifications

### System

Processor	Intel® Core™ i7/i5/i3/ Celeron® U-series Processor (Skylake-U)
Chipset	Intel® SoC (Skylake)
BIOS	AMI
SIO	IT8786E
Memory	1 DDR4 2133MHz SO-DIMM, up to 32GB

### I/O Interface

Serial	5 COM RS-232/422/485
USB	<ul style="list-style-type: none"> <li>4 USB 3.0 (External)</li> <li>Up to 4 USB 2.0 (Internal)</li> </ul>
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 : <ul style="list-style-type: none"> <li>1 Full-size for PCIe/USB/Internal SIM Card</li> <li>1 Full-size for PCIe/USB/mSATA</li> </ul>
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### Graphics

Processor	Intel® HD Graphics 520
Interface	<ul style="list-style-type: none"> <li>DVI-D : Up to 1920 x 1080 @ 60Hz</li> <li>DisplayPort : Up to 3840 x 2160 @ 60Hz</li> </ul>

### Storage

SATA	2 SATA III (6Gbps) support S/W RAID function
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)
Storage Device	1 2.5" SSD/HDD Bracket (Internal)

### Audio

Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	1 Mic-in, 1 Line-out

### Ethernet

LAN 1	Intel® I219 GigE LAN supports iAMT 11.0
LAN 2	Intel® I210 GigE LAN

### 10G Ethernet

LAN 3	Intel® X710-BM2 10GigE LAN supports IEEE 802.3 10GBASE-T SFP+
LAN 4	Intel® X710-BM2 10GigE LAN supports IEEE 802.3 10GBASE-T SFP+

### Power

Power Input	9V to 36V, DC-in
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Remote Switch	2-pin Terminal Block

### 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
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### Mechanical

Dimensions (WxLxH)	150mm x 106mm x 68mm (5.9" x 4.2" x 2.7")
Weight	1.8 kg (3.97 lb)
Mounting	<ul style="list-style-type: none"> <li>Wallmount by mounting bracket</li> <li>2U Rackmount (Optional)</li> </ul>

### Environment

Operating Temp.	-25°C to 55°C (-13°F to 131°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 55°C
Shock	<ul style="list-style-type: none"> <li>IEC 60068-2-27</li> <li>SSD : 50G @ wallmount, Half-sine, 11ms</li> <li>IEC 60068-2-64</li> <li>SSD : 5Grms, 5Hz to 500Hz, 3 Axis</li> </ul>
Vibration	<ul style="list-style-type: none"> <li>IEC 60068-2-64</li> <li>SSD : 5Grms, 5Hz to 500Hz, 3 Axis</li> </ul>
EMC	CE, FCC, EN50155, EN50121-3-2

## Order Information

SPC-3071	• SPC-3000, onboard Intel® Core™ i7-6600U, 2 GigE LAN, 2 10G SFP+, 1 SSD, 4 USB 3.0, 5 COM, 1 SIM, 16 Isolated DIO
DDR4 32G	• Certified DDR4 32GB 2666MHz RAM
DDR4 16G	• Certified DDR4 16GB 2133MHz RAM
DDR4 8G	• Certified DDR4 8GB 2133MHz RAM
DDR4 4G	• Certified DDR4 4GB 2133MHz RAM
PWA-60WP3	• 60W, 24V/2.5A 90V AC to 264V AC Power Adapter with 3-pin 3.5mm Terminal Block
PWA-60WP3-WT	• 60W, 24V/2.5A 90V AC to 264V AC Power Adapter with 3-pin 3.5mm Terminal Block, Wide Temperature -30°C to +70°C
PWA-120W	• 120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-160W-WT	• 160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-280W-WT	• 280W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
TMK2-20P-100	• Terminal Block 20-pin to Terminal Block Cable, 100cm
TMK2-20P-500	• Terminal Block 20-pin to Terminal Block Cable, 500cm
TMB-TMBK-20P	• Terminal Board with One 20-pin Terminal Block and DIN-Rail Mounting
3G Module	• Mini PCIe 3G/GPS Module with Antenna
4G Module	• Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth Module	• Mini PCIe WiFi & Bluetooth Module with Antenna

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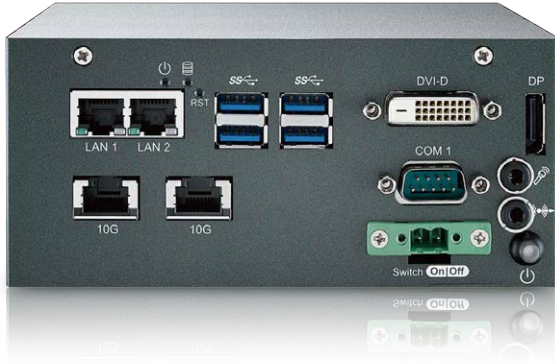
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# SPC-3055



Intel® Core™ i7/i5/i3 U-series Processor (Skylake-U) Ultra-compact Embedded Box PC, 2 GigE LAN, 2 10 GigE LAN, 2 SSD, 1 SIM, 4 USB 3.0, 5 COM, High Performance, EN50155, EN50121



- Intel® Core™ i7/i5/i3 U-series SoC (Skylake-U)
- DDR4 2133MHz memory, up to 32GB
- Onboard DVI-D and DisplayPort display interfaces support up to 4K resolution
- 9V to 36V DC Power Input

- Dual 10 GigE LAN, up to 10Gbps data rate
- 2 Independent GigE LAN, iAMT 11.0
- 4 USB 3.0, 5 COM RS-232/422/485
- Supports 3G/4G/LTE/WiFi/GPRS/UMTS
- All-in-one integrated, Compact, Cableless



Machine Vision



In-Vehicle Infotainment



Smart Manufacturing



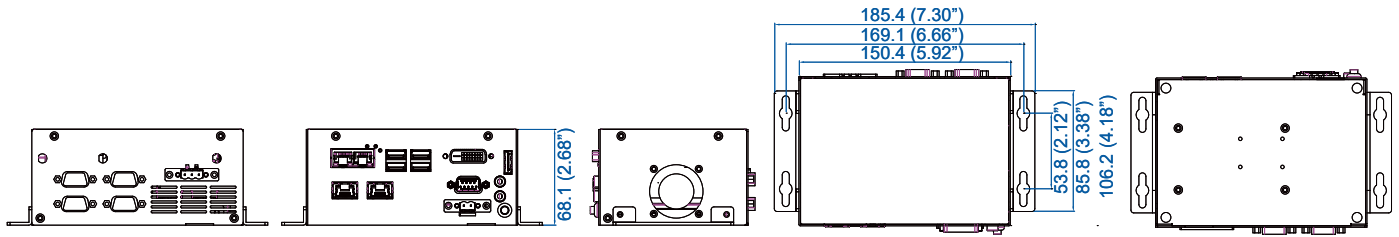
Intelligent Surveillance



Robot Control



# Dimensions & Drawing Unit: mm (inch)



## Specifications

System		Ethernet	
<b>Processor</b>	Intel® Core™ i7/i5/i3/Celeron® U-series Processor (Skylake-U)	<b>LAN 1</b>	Intel® I219 GigE LAN supports iAMT 11.0
<b>Chipset</b>	Intel® SoC (Skylake)	<b>LAN 2</b>	Intel® I210 GigE LAN
<b>BIOS</b>	AMI	<b>10G Ethernet</b>	
<b>SIO</b>	IT8786E	<b>LAN 3</b>	Intel® X550-AT2 10 GigE LAN
<b>Memory</b>	1 DDR4 2133MHz SO-DIMM, up to 32GB	<b>LAN 4</b>	Intel® X550-AT2 10 GigE LAN
<b>I/O Interface</b>		<b>Power</b>	
<b>Serial</b>	5 COM RS-232/422/485 (ESD 8KV)	<b>Power Input</b>	9V to 36V, DC-in
<b>USB</b>	<ul style="list-style-type: none"> <li>4 USB 3.0 (External)</li> <li>Up to 4 USB 2.0 (Internal)</li> </ul>	<b>Power Interface</b>	3-pin Terminal Block : V+, V-, Frame Ground
<b>LED</b>	Power, HDD	<b>Remote Switch</b>	2-pin Terminal Block
<b>SIM Card</b>	1 SIM Card Socket (Internal)	<b>Others</b>	
<b>Expansion</b>		<b>Watchdog Timer</b>	Reset : 1 to 255 sec./min. per step
<b>Mini PCIe</b>	2 Mini PCIe Socket : <ul style="list-style-type: none"> <li>1 Full-size for PCIe/USB/Internal SIM Card</li> <li>1 Full-size for PCIe/USB/mSATA</li> </ul>	<b>Smart Management</b>	Wake on LAN, PXE supported
<b>Graphics</b>		<b>HW Monitor</b>	Monitoring temperature, voltages. Auto throttling control when CPU overheats.
<b>Processor</b>	Intel® HD Graphics 520	<b>Software Support</b>	
<b>Interface</b>	<ul style="list-style-type: none"> <li>DVI-D : Up to 1920 x 1080 @ 60Hz</li> <li>DisplayPort : Up to 3840 x 2160 @ 60Hz</li> </ul>	<b>OS</b>	Windows 10, Windows 8.1, Windows 7, Linux
<b>Storage</b>		<b>Mechanical</b>	
<b>SATA</b>	2 SATA III (6Gbps) support S/W RAID function	<b>Dimensions (WxLxH)</b>	150mm x 106mm x 68mm (5.9" x 4.2"x 2.7")
<b>mSATA</b>	1 SATA III (Mini PCIe Type, 6Gbps)	<b>Weight</b>	1.8 kg (3.97 lb)
<b>Storage Device</b>	2 2.5" SSD/ HDD Bracket (Internal)	<b>Mounting</b>	<ul style="list-style-type: none"> <li>Wallmount by mounting bracket</li> <li>DIN Rail Mount</li> <li>2U Rackmount (Optional)</li> </ul>
<b>Audio</b>		<b>Environment</b>	
<b>Audio Codec</b>	Realtek ALC888S-VD, 7.1 Channel HD Audio	<b>Operating Temperature</b>	-40°C to 55°C (-40°F to 131°F)
<b>Audio Interface</b>	1 Mic-in, 1 Line-out	<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
		<b>Humidity</b>	5% to 95% Humidity, non-condensing
		<b>Relative Humidity</b>	95% @ 55°C
		<b>Shock</b>	<ul style="list-style-type: none"> <li>IEC 60068-2-27</li> <li>SSD : 50G @ wallmount, Half-sine, 11ms</li> </ul>
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## Order Information

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<b>PWA-60WP3</b>	• 60W, 24V/2.5A 90V AC to 264V AC Power Adapter with 3-pin 3.5mm Terminal Block
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<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>VESA Mount</b>	• VESA Mounting Kit
<b>DIN-RAIL</b>	• DIN Rail Kit
<b>Rack Mount</b>	• 2U Rackmount 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

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