

SPC-2900 Series

Ultra Compact Embedded System with Quad Core Intel® J1900, 2 Gigabit LAN, 4 COM, Isolated DIO, 7 USB 3.0 with Renesas Technology for USB Inspection, Fanless, Rugged, Extended Temperature



- Quad Core Intel® Celeron® Processor J1900
- Rugged, -25°C to 70°C Operating Temperature
- Fanless and Ultra-compact
- 6V to 36V DC Power Input
- DVI-I for VGA/ DVI-D/ HDMI Video Output
- Renesas USB 3.0 Technology, up to 7 USB 3.0

- Dual Independent Gigabit LAN, 8 Isolated DIO
- 4 COM RS-232/ 422/ 485 with Auto Flow Control
- Supports 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- Optional supports External SIM Card/ CFast Card/ SSD Tray



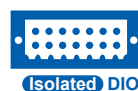
Vision Inspection

Machine Vision

Motion Control

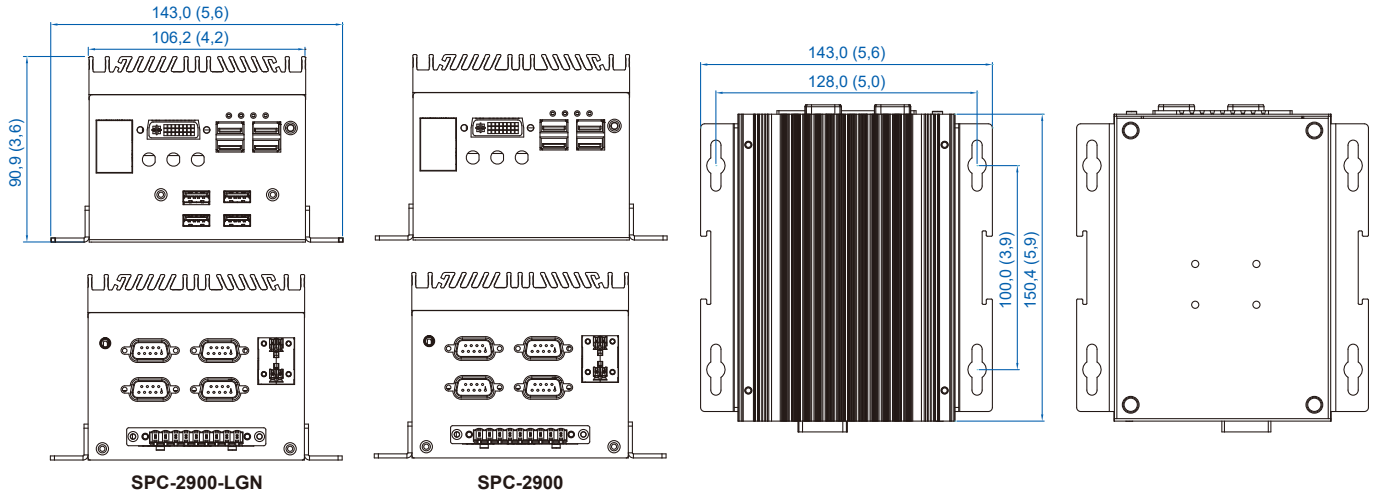
Automated Optical Inspection (AOI)

Packing Inspection



Dimensions & Drawing

Unit: mm (inch)



Specifications

System

Processor	Quad Core Intel® Celeron® Processor J1900 (2M Cache, up to 2.42 GHz)
Chipset	Intel® SoC (Bay Trail)
BIOS	AMI
SIO	IT8786E
Memory	1 DDR3L 1333MHz SO-DIMM, up to 8GB

I/O Interface

Serial	4 COM RS-232/ 422/ 485
USB	<ul style="list-style-type: none"> • 7 External USB 3.0 (SPC-2900-LGN)/ 3 External USB 3.0 (SPC-2900) • 1 USB 2.0 (External)
Isolated DIO	8 Isolated DIO : 4 DI, 4 DO
LED	Power, HDD, WTD
SIM Card	1 Internal SIM Card Socket (SPC-2900)

Expansion

Mini PCIe	2 Mini PCIe Socket (SPC-2900) : <ul style="list-style-type: none"> • 1 Mini PCIe for PCIe/ USB/ SIM Card • 1 Mini PCIe for PCIe/ USB/ Optional mSATA
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Graphics

Chipset	Intel® HD
Interface	DVI-I for VGA/ DVI-D/ HDMI output : <ul style="list-style-type: none"> • DVI : Up to 1920 x 1080 • VGA : Up to 2560 x 1600

Storage

SATA	1 SATA II (3Gbps)
mSATA	1 SATA II (Mini PCIe Type, 3Gbps, SPC-2900)

Audio

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

Ethernet

LAN 1	Gigabit LAN by Intel® I210
LAN 2	Gigabit LAN by Intel® I210

Power

Power Input	6V to 36V, DC-in
Power Interface	2-pin Terminal Block : V+, V-
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
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Mechanical

Dimension	106mm x 150.4mm x 91mm (4.2" x 5.9" x 3.6")
Weight	1.6 kg (3.5 lb)
Mounting	<ul style="list-style-type: none"> • Wallmount by mounting bracket • DIN Rail Mount (Optional)

Environment

Operating Temp.	-25°C to 70°C (-13°F to 158°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 70°C
Shock	<ul style="list-style-type: none"> • IEC 60068-2-27 • SSD : 50G @ wallmount, Half-sine, 11ms
Vibration	<ul style="list-style-type: none"> • IEC 60068-2-64 • SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC, EN 50155, EN 50121-3-2

Order Information

SPC-2900-LGN	• SPC-2900 Ultra-compact Embedded System, 7 USB 3.0, 2 GbE LAN, 4 COM, Isolated DIO, Onboard Quad Core Intel® Celeron® J1900
SPC-2900	• SPC-2900 Ultra-compact Embedded System, 3 USB 3.0, 2 GbE LAN, 4 COM, Isolated DIO, Onboard Quad Core Intel® Celeron® J1900
DDR3L4G	• Certified DDR3L-1600 4G RAM
DDR3L8G	• Certified DDR3L-1600 8G RAM
PWA-60WP2	• 60W, 24V/2.5A 100V AC to 240V AC Power Adapter for 2 Pin 3.5mm Terminal Block
DIN-RAIL	• DIN Rail Kit
3G Module	• Mini PCIe 3G/GPS Module with Antenna
4G Module	• Mini PCIe 4G/GPS Module with Antenna
WiFi Module	• Mini PCIe WiFi Module with Antenna