

SPC-2000 SERIES

Ultra-compact Embedded Systems

- Ultra Compact
- Versatile Features
- Trusted Reliability
- User Friendly



Enabling solutions in your hand

Vecow SPC-2000 Series Ultra-compact Embedded System features with ultra small form factor, multiple I/O onboard, WiFi/3G/4G/UMTS/GPS supported, reliable performance in harsh environments and wide range of power input to make easy implementation possible. Vecow SPC-2000 Series Ultra-compact Embedded System is your powerful, fanless, compact and cost effective choice to meet various requirements of Automation, Machine Vision, Surveillance and any Internet of Things (IoT) applications.



Ultra Compact

Sizing with small form factor, measuring in 1.4 kg only, just one hand held, fanless design, Vecow SPC-2000 series embedded system is a compact and cost effective choice to make your solution possible in a squeeze of facilities.

Versatile Features

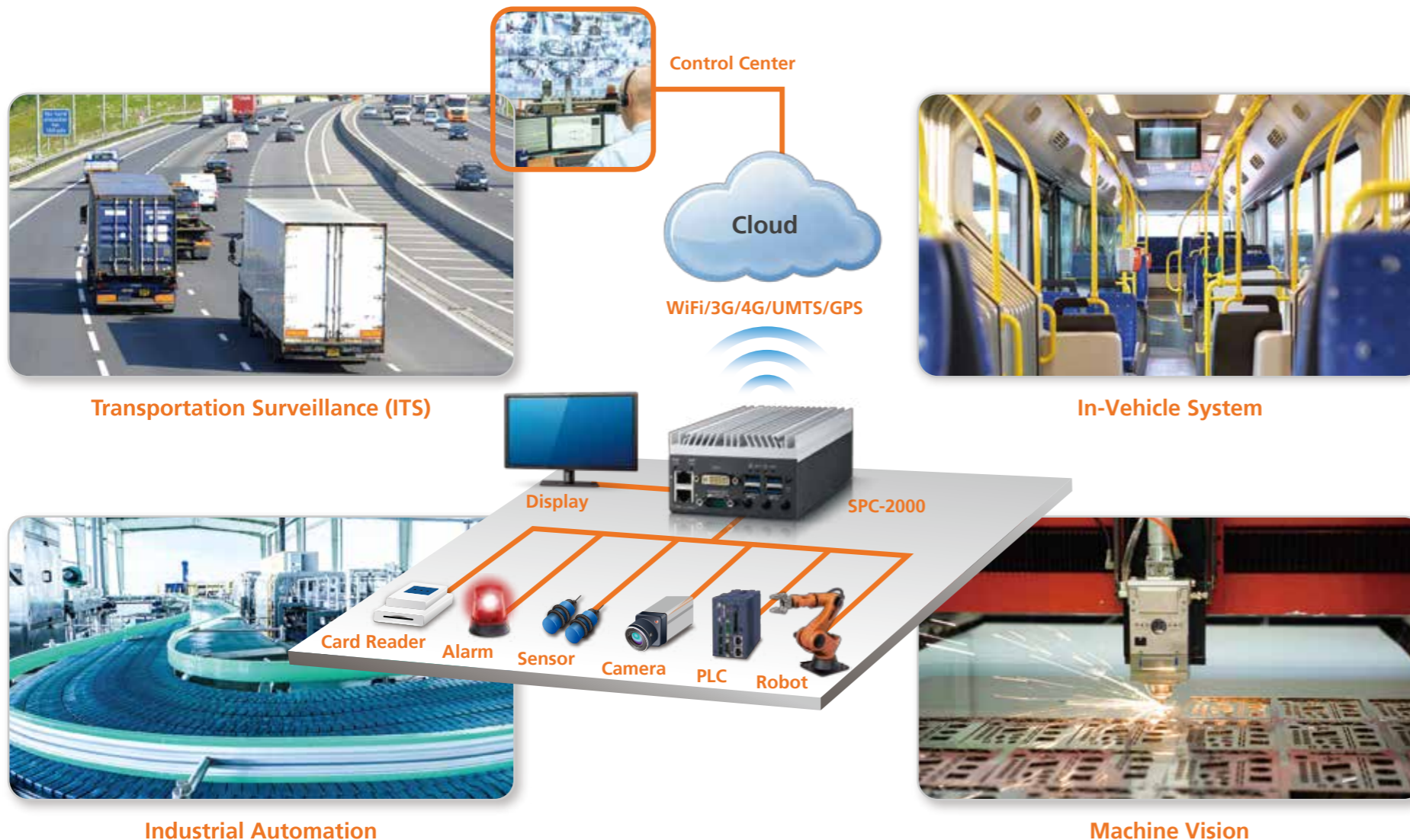
Vecow SPC-2000 series embedded system is equipped with multiple I/O, such as, PoE+, Mini PCIe for 3G/ 4G/ UMTS/ GPS/ WiFi, USB 3.0, RS-232/422 /485, Isolated DIO and CFast connections, to meet variety of requirements for IoT applications.

Trusted Reliability

Designed in fanless and cableless, wide-ranging operating temperature and power input supported, critical EMC, anti-shock and anti-vibration regulations certified, Vecow SPC-2000 series embedded system promises you trusted reliability.

User Friendly

With considerate hardware and software design, multiple data transportation protocol, additional storage capacity, flexible compatibility of power input and smart remote management features, Vecow SPC-2000 series embedded system benefits you less-effort and lower-cost solution for various IoT applications.



Key Features

- Intel® Atom™ Quad Core E3845 1.91GHz Processor
- Rugged, -25°C to 70°C Operating Temperature
- Fanless and Ultra-compact
- Supports DC-IN (Range 6V to 36V)
- 4 COM (RS-232/422/485) with Auto Flow Control
- DVI-I for VGA/DVI/HDMI Video Output
- 8 Isolated DIO, 4 USB 3.0
- 2 PoE+ Gigabit LAN

Specifications

System

Processor	Intel® Atom™ Quad Core E3845 1.91GHz Processor
Chipset	Intel® SoC
Memory	1 DDR3L 1333 SO-DIMM, up to 8GB
Video	1 DVI-I for VGA/DVI/HDMI Video Output
Audio	1 Line-out
Software Support	Windows 10, Windows 8.1, Windows 7, WES7, Linux

I/O Interface

Serial	4 RS-232/422/485
Ethernet	2 Gigabit LAN by Intel® I210
PoE	2 Gigabit IEEE 802.3at (25.5W/48V) PoE+ Ports (Optional)
USB	4 USB 3.0
DIO	4 Isolated DI, 4 Isolated DO (Optional)
LED	Power/HDD/WTD/PoE
Mini PCIe Slot	1 Mini PCIe Socket (PCIe + USB+ SIM card socket) 1 Mini PCIe Socket (PCIe + USB) optional with mSATA (Jumper Select)

Power Supply

Power Input	Terminal Block; DC-IN 6V to 36V 2-pin Remote Power On/Off Switch Power Button
Adaptor	AC to DC, 60W (Optional)

Storage

SATA HDD	1 SATA II Ports at 3.0 Gbps 1 Front-access CFast Slot, Push-in/out Ejector (Optional) 1 Front-access SSD/HDD Tray (Optional)
mSATA	1 Mini PCIe Socket (PCIe + USB), optional with mSATA

Other

Watchdog Timer	Reset: 1 to 255 sec./min. per step
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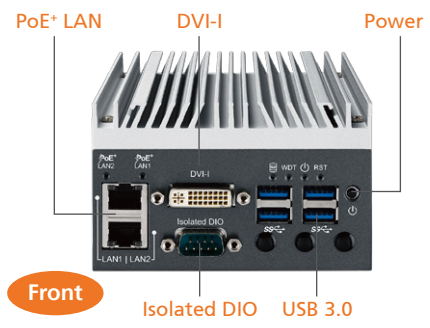
Mechanical

Dimension	106 x 150.4 x 65.9mm (4.2" x 5.9" x 2.6")
Weight	1.4 kg (3.1lb)
Mounting	Wallmount by mounting bracket DIN-Rail Mounting Kit (Optional)
Design	Ultra-compact; 3.5" Form Factor Top cover Heat Sink; Fanless Design

Environment

Operating Temp.	-25°C to 70°C (-13°F to 157°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, Non-condensing
Shock	IEC 60068-2-27 SSD: 50G @ Wallmount, Half sine, 11ms
Vibration Protection	IEC 60068-2-64 SSD: 5 Grms @ 5Hz to 500Hz, 3 Axis
EMC	CE/FCC/EN 50155 & EN 50121-3-2

SPC-2000 Family



Model	2 PoE+	8 Isolated DIO	1 Front-access CFast	1 External SIM Socket	1 Front-access SSD
SPC-2845	●	●			
SPC-2145					
SPC-2845X	●	●		●	
SPC-2145X				●	
SPC-2845R	●	●	●		
SPC-2145R			●		
SPC-2845RS	●	●			●
SPC-2145RS					●

Order Information

Part Number	Description
SPC-2845	SPC-2845, 2 PoE+ GbE LAN, 1 DVI-I, 4 RS-232/422/485, 8 Isolated DIO, 4 USB3.0, Intel® Atom™ Bay Trail E3845 Quad Core
SPC-2145	SPC-2145, 2 GbE LAN, 1 DVI-I, 4 RS-232/422/485, 4 USB3.0, Intel® Atom™ Bay Trail E3845 Quad Core
SPC-2845X	SPC-2845, External SIM slot, 2 PoE+ GbE LAN, 1 DVI-I, 4 RS-232/422/485, 8 Isolated DIO, 4 USB3.0, Intel® Atom™ Bay Trail E3845 Quad Core
SPC-2145X	SPC-2145, External SIM slot, 2 GbE LAN, 1 DVI-I, 4 RS-232/422/485, 4 USB3.0, Intel® Atom™ Bay Trail E3845 Quad Core
SPC-2845R	SPC-2845, Front-Access CFast, 2 PoE+ GbE LAN, 1 DVI-I, 4 RS-232/422/485, 8 Isolated DIO, 4 USB3.0, Intel® Atom™ Bay Trail E3845 Quad Core
SPC-2145R	SPC-2145, Front-Access CFast, 2 GbE LAN, 1 DVI-I, 4 RS-232/422/485, 4 USB3.0, Intel® Atom™ Bay Trail E3845 Quad Core
SPC-2845RS	SPC-2845, Front-Access SSD/HDD Tray, 2 PoE+ GbE LAN, 1 DVI-I, 4 RS-232/422/485, 8 Isolated DIO, 4 USB3.0, Intel® Atom™ Bay Trail E3845 Quad Core
SPC-2145RS	SPC-2145, Front-Access SSD/HDD Tray, 2 GbE LAN, 1 DVI-I, 4 RS-232/422/485, 4 USB3.0, Intel® Atom™ Bay Trail E3845 Quad Core

Option	Description
DDR3L8G	Certified DDR3L 8G RAM
DDR3L4G	Certified DDR3L 4G RAM
PWA-60WP2	60W, 24V/2.5A 100V AC to 240V AC Power Adapter for 2 Pin 3.5mm Terminal Block
DIN Rail Kit	DIN Rail Kit for SPC-2000

SPC-2000-20171012
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