RCS-2000 series

High Performance, Rugged, Extended Temp, Fanless Robust Computing System with PCI | PCIe Slots, Intel® Quad-Core Atom™ E3845 Valleyview (Bay Trail) Processor

Intel® Quad-Core Atom™ Bay Trial-I E3845 Quad-core processor

1 PCI-ex1 Slot, 1 PCI Slot or 2 PCI Expansion Slots

Isolated DIO, 16 DI / 16 DO (Optional)

Fanless, -25°C to 70°C

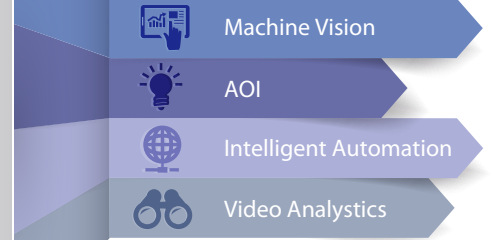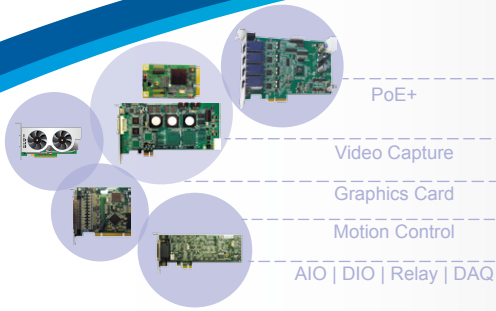Built-In Input 80 VDC Overvoltage Protection

3G/4G, GPS/GPRS, WiFi Support

Dual Display Support: DVI-D, VGA

2 GbE LAN, 4 COM, 4 USB 3.0 + 2 USB 2.0

To maximum leverage the engineering design, VECOW launches EN50155-certified RCS-2000 series, based on Intel® Quad-Core Atom™ E3845 (Bay Trail-I Premium) processor platform, with the multiple PCI/PCIe slot expandability allows flexible integration of variety of add-on cards and isolated connectivity perfectly designed for rugged Niche markets requires surge protection for power.RCS-2000 series, as an addition of the RCS family, with the capability up to 8GB memory from single channel DDR3L, moreover, offering abundant connectivity with host/device, including one DVI-D, one VGA, two GbE LANs, two RS-232, two RS-232/422/485, two isolated RS-232/422/485, two isolated DIO, two USB 2.0 ports, four USB 3.0 ports, one internally accessible 2.5" SATA 3Gbps SSD/HDD tray, one optional mSATA support via an internal mini-PCIe slot, 3G/4G/GPS/GPRS/WiFi/Bluetooth support and Remote Power switch design.With the multiple, powerful I/O, unique front wiring design, thumb-screw design and wide temperature at-25°C to +70°C, RCS-2000 series is undoubtedly ideal for Factory Automation (CNC, AOI, Control/Monitor/ Data Gateway, etc.) , IOT (Internet of Things), In-Vehicle (Infotainment, Fleet Management, etc.), Oil, Gas and Water and other Isolated related applications.

Vecow

Vecow

PoE+
Video Capture
Graphics Card
Motion Control
AIO | DIO | Relay | DAQ

- Machine Vision
- AOI
- Intelligent Automation
- Video Analytics

Unit: mm (inch)

RCS-2211 & RCS-2202
210 (8.3") · 134 (5.3")

RCS-2011 & RCS-2002
210 (8.3") · 134 (5.3")

☑ Specification

System
Processor	Intel® Atom™ Quad-Core Valleyview (Bay Trail) Processor (E3845 1.91GHz)
Chipset	Valleyview SoC
Memory	1 DDR3L 1333 SO-DIMM 8GB Max.,
Video	1 DB 15 VGA, 1 DVI-D
	Dual Channel LVDS (RCS-2211 & RCS-2202 Only)
Audio	1 Mic-In, 1 Line-Out
Software Support	Windows 10, Windows 8.1, Windows 7, WES7, Linux & RTOS

I/O Interface
Serial Interface	6 COM Ports; 2 RS-232, 4 RS-232/422/485, 2 Isolated RS-232/422/485 (RCS-2211 & RCS-2202)
	4 COM Ports; 2 RS-232, 2 RS-232/422/485 (RCS-2011 & RCS-2002)
LAN	2 Intel® GbE WG82574L
USB	4 USB 3.0, 2 USB 2.0
Isolated DIO	16 DI, 16 DO (RCS-2211 & RCS-2202 Only)
LED	Power/HDD
GPIO	16 GPIO

Expansion
PCI	PCIe	1 PCI & 1 PCI-ex1 Slots (RCS-2211 & RCS-2011), 2 PCI Expansion Slots (RCS-2202 & RCS-2002)
Mini PCIe Slot	1x miniPCIe socket (PCIe +USB+ SIM card socket)
	1x miniPCIe socket (PCIe +USB)

Power Supply
Power Input	2-pin terminal block for DC-IN
	ATX: 2-Pin Remote Power On/Off Switch
Power Input Voltage	DC-IN 6 to 36V
Power Output	On-Board 12V (for Panel PC)
Power Adaptor	AC to DC, +24V / 2.5A 60W Max. (Optional)
Protection	On-Board LT4356 for High Voltage Surge Protection

Storage
SATA	1 SATA II (3Gbps) for SSD/HDD
mSATA	1 CFast (or 1 mSATA by request)

Other
|	
Watchdog Timer	Reset: 1 to 255 sec./min. Per Step
GPS	On-Board GPS Module (Optional)

Mechanical
Chassis Construction	Aluminum Housing
Dimension (W x L x H)	210mm x 252mm x 134mm (8.3" x 9.9" x 5.3")
Weight	3.5kg (7.7lb)
Mounting	Wall-mount by Mounting Bracket

Environment
Operating Temperature	-25°C to 70°C (-13°F to 157°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	10% to 95% Humidity, Non-condensing
Relative Humidity	95% at 70°C
Vibration	Operating, 5Grms @5~500 Hz w/SSD, according to IEC60068-2-64
Shock	Operating, 20 Grms, Half-sine 11 ms Duration w/ SSD, According to IEC60068-2-27
EMC	CE/FCC/EN50155 & EN50121-3-2

252 (9.9")
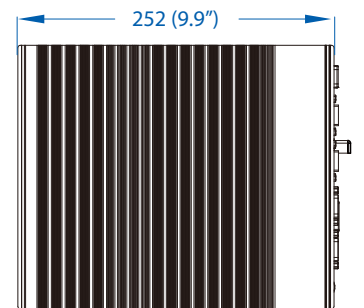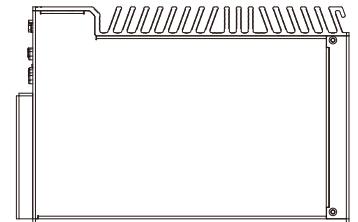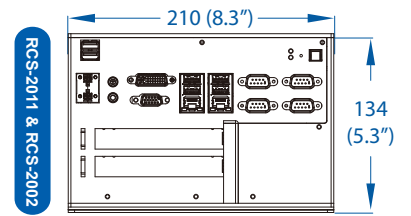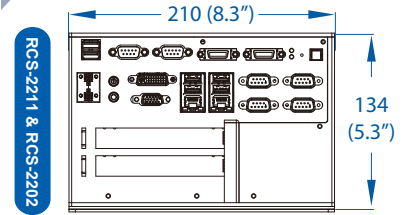
☑ Order Information

Part Number	Description
RCS-2211	Fan-less Robust Computing System with 1 PCI-ex1, 1 PCI, 1 SO-DIMM, 6 COM (2 Isolated COM), 4 USB 3.0, 2 USB 2.0, 1 SATA II SSD	HDD, Isolated DIO
RCS-2202	Fan-less Robust Computing System with 2 PCI, 1 SO-DIMM, 6 COM (2 Isolated COM), 4 USB 3.0, 2 USB 2.0, 1 SATA II SSD	HDD, Isolated DIO
RCS-2011	Fan-less Robust Computing System with 1 PCI-ex1, 1 PCI, 1 SO-DIMM, 4 COM, 4 USB 3.0, 2 USB 2.0, 1 SATA II SSD	HDD
RCS-2002	Fan-less Robust Computing System with 2 PCI, 1 SO-DIMM, 4 COM, 4 USB 3.0, 2 USB 2.0, 1 SATA II SSD	HDD

Option	Description
DDR3L8G	Certified DDR3L-1333 8G RAM
DDR3L4G	Certified DDR3L-1333 4G RAM
PWA-60WP2	60W, 24V/2.5A 100V AC to 240V AC Power Adapter for 2 Pin 3.5mm Terminal Block

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