

Edge AI Solution Services

Smart Factory

- Machine Vision
- Robotic Control
- Data Acquisition

intel
partner
Gold
IoT Solutions

Vecow

Integrated M2M Solution Makes Intelligent Factory Possible

Powerful Edge AI Platforms for Digital Factory

Vecow provides levels of powerful and trusted computing engines for Machine Vision, Robotic Control, Data Acquisition and any Edge AI solutions for Digital Factory or Industry 5.0 applications. Featuring performance-driven platform for leading system productivity, integrated vision interfaces for versatile edge requirements, embedded AI accelerators for real-time inference, flexible expansion functions for further devices communication, embedded remote control functions for advanced solution management, compact size for limited working space, wide-range power input with smart power protection features, and trusted system reliability for extended operating temperature. Vecow Edge AI solution services make smart manufacturing and factory automation tasks possible.

**Automated Optical
Inspection (AOI)**
AI Computing System



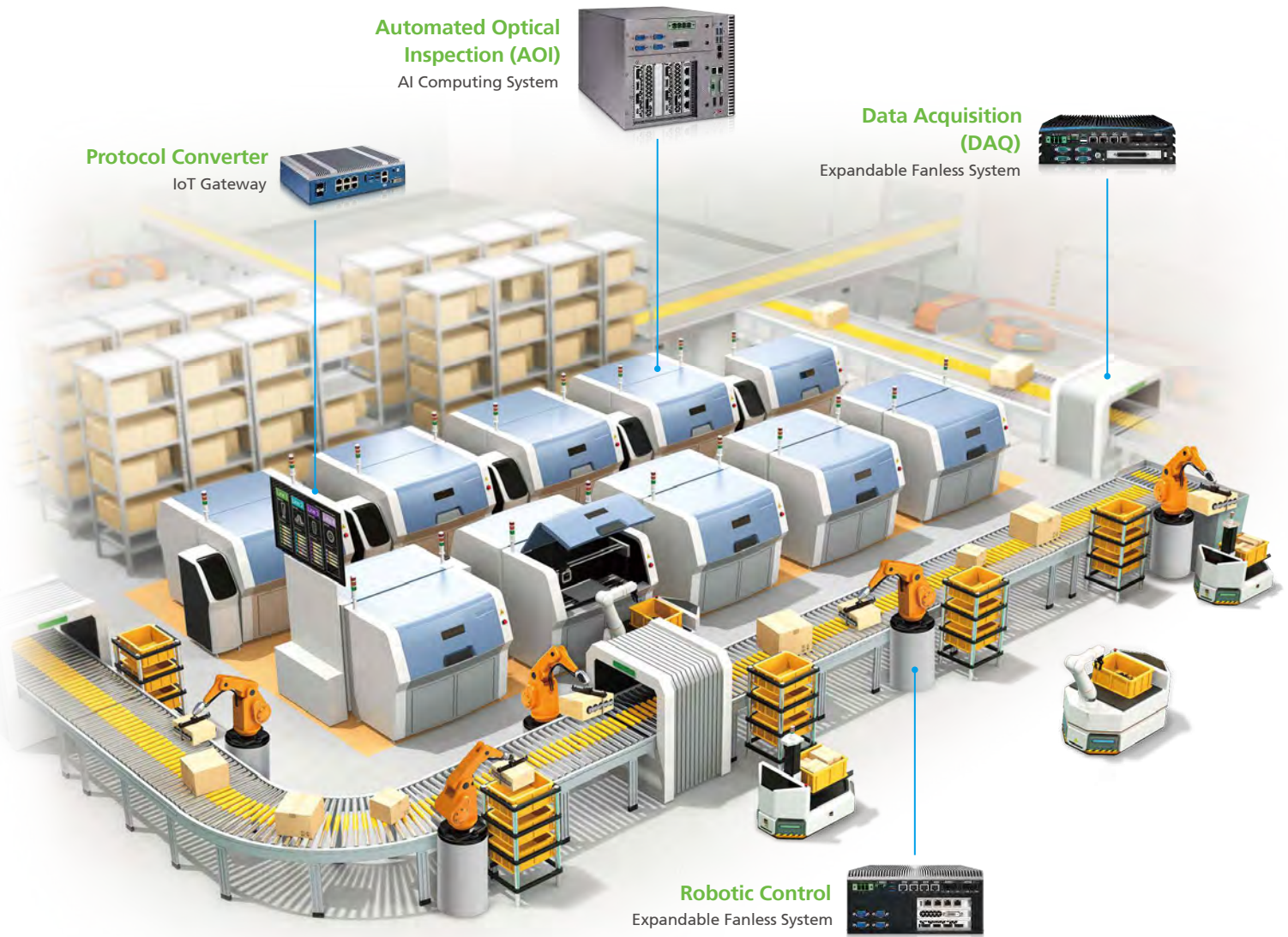
Protocol Converter
IoT Gateway



Data Acquisition (DAQ)
Expandable Fanless System



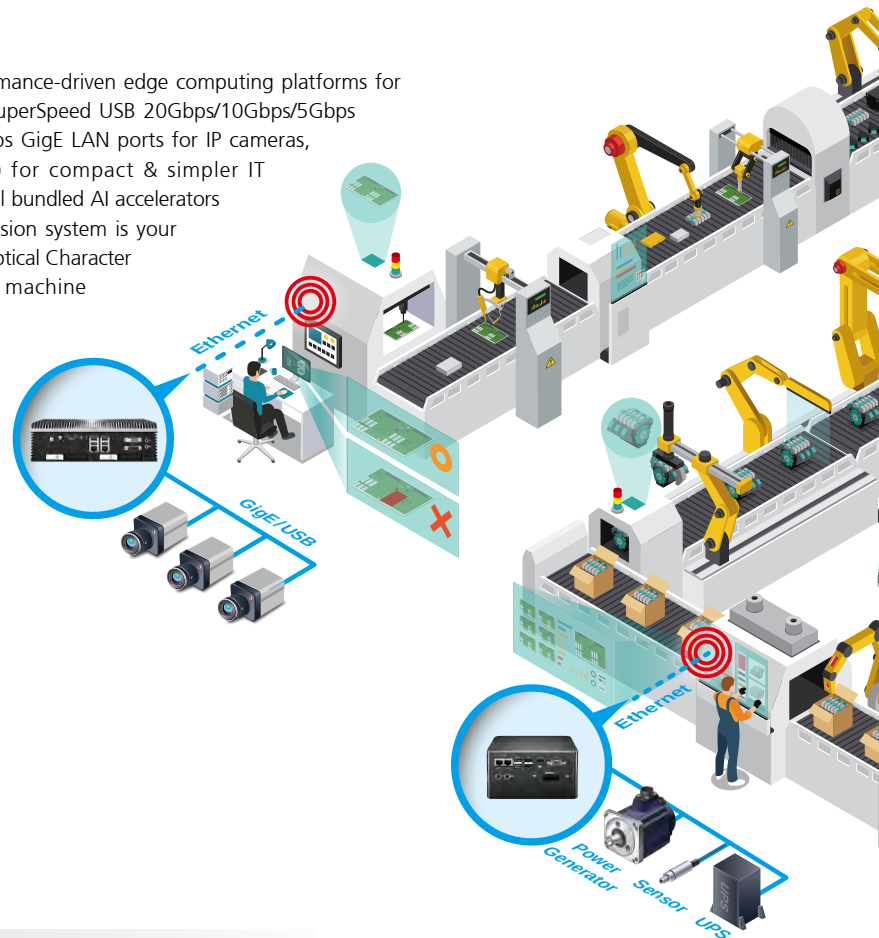
Robotic Control
Expandable Fanless System



Enabling Digital Factory Solutions b

Machine Vision

Vecow machine vision solution serves innovative and performance-driven edge computing platforms for AI inspection and inference tasks. Equipped with multiple SuperSpeed USB 20Gbps/10Gbps/5Gbps connections for USB Vision, multiple 10Gbps/2.5Gbps/1Gbps GigE LAN ports for IP cameras, multiple 10G/2.5G/1G IEEE 802.3at PoE+ (25.5W/48V) for compact & simpler IT infrastructure requirements in limited operation space, optional bundled AI accelerators for neural networks computing features. Vecow machine vision system is your proficient platform for Optical Character Recognition (OCR), Optical Character Verification (OCV), Automated Optical Inspection (AOI), machine learning, deep learning and any machine vision requirements.



Workstation-grade Solution (Intel® Xeon®/Core™ i9/i7/i5/i3 Processor)



ECX-3071X

10G LAN High-speed Embedded System

- Dual 10GigE LAN, 5 2.5GigE LAN with PoE+
- 6 10G USB, M.2 : Key B, Key E, Key M
- DC 9V to 50V, Intel vPro, TSN, TPM 2.0



ECX-3800 PEG

Expandable Compact AI Inference System

- 4 PCIe, max 200W for dual NVIDIA/AMD PEG
- 6 10G USB, 5 2.5GigE LAN with 4 PoE+
- DC 12V to 50V, Intel vPro, TSN, TPM 2.0



RCX-2700 PEG

Expandable AI Inference System

- 5 PCIe, max 1500W for dual NVIDIA/AMD PEG
- 6 10G USB, 4 SSD Tray, 32 Isolated DIO
- DC 9V to 55V, Intel vPro, TPM 2.0

Power-efficient Solution (Intel® Core™ i7/i5/i3 U-series Processor)



ABP-3000 AI

Slim AI Inference System

- Embedded Hailo-8™ AI Accelerator, max 26 TOPS
- 4 USB, 4 GigE LAN with 2 PoE+
- DC 9V to 50V, TPM 2.0, Fanless & Cableless



SPC-7200

Ultra-Compact Embedded System

- 2.5GigE LAN, SIM Socket, 10G USB
- Intel vPro, TSN, TPM 2.0
- DC 9V to 55V, 5G Ready



EAC-2000

Fanless AI Computing System

- NVIDIA Jetson™ platform, max 21 TOPS
- 4 GigE LAN with 2 PoE+, 4 USB, 5G Ready
- DC 9V to 50V, Fanless -20°C to 70°C

Entry-level Solution (Intel Atom® Processor)



SPC-4600

Ultra-Compact Fanless System

- 4 USB, Isolated DIO
- 2 GigE PoE+ LAN, IEEE 1588 (PTP)
- DC 9V to 36V, Fanless -40°C to 75°C



SPC-4020A

Compact Fanless System

- 4 USB, Isolated COM
- 2 GigE LAN support IEEE 1588 (PTP)
- DC 9V to 36V, Fanless -40°C to 75°C



PE-5004/PE-5002 (10G PoE+)

10GigE PoE+ Expansion Card

- 4-port/2-port 10GigE IEEE 802.3at PoE+ (25W/48V)
- Interface : PCI Express x8 (PE-5004), PCI Express x4 (PE-5002)
- -25°C to 60°C Operation

by Advanced Vecow Edge AI Platform



Robotic Control

Vecow robotic control solution provides a diversity levels of platforms to facilitate versatile machine and factory automation requirements for enhanced productivity. Furnished with multiple PCIe/Mini PCIe/M.2/SUMIT expansions for system security, motion control, remote communication, system monitoring and any machine to machine tasks, Isolated DIO enables basic control functions over the machine, multiple 5G/4G/WiFi/BT/LTE/GPRS/UMTS wireless connections support field allocation, time synchronization, and any advanced remote machine management functions, compact design for limited space, wide range power input and 16-mode surge power control secures system reliability during non-stop 7-24 operation. Vecow robotic control system is your powerful and flexible solution for machine to machine applications.

Workstation-grade Solution (Intel® Xeon®/Core™ i9/i7/i5/i3 Processor)



ECX-3000-PoER

5G Ready Compact Fanless System

- 6 10G USB, 5 2.5GigE LAN with 4 PoE*, SUMIT A, B
- DC 9V to 50V, SW Ignition, Intel vPro, TSN, TPM 2.0
- Fanless -40°C to 75°C



ECX-3400 PEG

Expandable AI Inference System

- 2 PCIe Slot with 200W Power Budget
- 6 10G USB, 5 2.5GigE LAN with 4 PoE*, 4 SSD Tray
- DC 9V to 50V, SW Ignition, Intel vPro, TSN, TPM 2.0



GPC-1000MX (M12)

Expandable AI Inference System

- 4 PCIe Slot, max dual 750W NVIDIA/AMD PEG
- 4 M12 GigE LAN, 4 M12 COM, 2 M12 CAN Bus
- DC 12V to 55V, SW Ignition, TPM 2.0

Power-efficient Solution (Intel® Core™ i7/i5/i3 Processor)



SPC-5600A

Compact Fanless System

- 4 USB, 4 GigE LAN, 4 COM
- DC 9V to 36V Power Input
- Fanless -25°C to 60°C



SPC-7000

Ultra-Compact Fanless System

- 2.5GigE LAN, SIM Socket, 10G USB, SUMIT A, B
- Intel vPro, TSN, TPM 2.0, 5G Ready
- DC 9V to 55V, SW Ignition, -40°C to 60°C



ARS-2000

Compact Fanless Expandable System

- 3 GigE LAN with 2 PoE*, PCI/PCIe Slot
- DC 6V to 36V, 80V Surge Protection
- Fanless -40°C to 75°C

Entry-level Solution (Intel Atom® Processor)



SPC-4020

Compact Fanless System

- 4 USB, 2 Isolated COM
- 2 GigE LAN support IEEE 1588 (PTP)
- DC 12V, Fanless -40°C to 75°C



SEC-2000

Compact Expandable System

- 4 USB, 2 Isolated COM, 2 PCI/PCIe Slot
- 2 GigE LAN support IEEE 1588 (PTP)
- DC 12V, Fanless -40°C to 75°C

Frame Grabber



PE-6004 (2.5G PoE+)

2.5GigE PoE+ Expansion Card

- 4-port 2.5GigE IEEE 802.3at PoE* (25W/48V)
- PCI Express x4 interface
- -25°C to 60°C Operation



Data Acquisition

Vecow data acquisition solution offers high-performance and trusted monitoring platforms for digital factory daily operation. Multiple 10G/2.5G/1G Ethernet connections for high-speed data transfer with no data latency, multiple WiFi/5G/4G/BT/LTE/GPRS/UMTS/LoRaWAN wireless connections support non-stop data delivery for private industrial cloud computing, Intel Time Coordinated Computing (Intel TCC), Time-Sensitive Networking (TSN), Open Platform Communications (OPC) and Precision Time Protocol (PTP) supporting advanced facility monitoring and managing features, rugged and fanless designs contribute a stable operation in harsh environment. Vecow data acquisition system is your smart and reliable solution for ESG optimization.



Workstation-grade Solution (Intel® Xeon®/Core™ i9/i7/i5/i3 Processor)



ECX-3000-4G

5G Ready Compact Fanless System

- 2.5GigE LAN, GigE LAN, SIM Socket
- DC 9V to 50V, SW Ignition, vPro, TSN, TPM 2.0
- Fanless -40°C to 75°C



RCX-2300 PEG

Expandable AI Inference System

- 2 GigE LAN, 6 10G USB, SIM Socket, 32 Isolated DIO
- 3 PCIe Slot with 750W Power Budget
- DC 9V to 55V, SW Ignition, Intel vPro, TPM 2.0



MTC-9021W

21.5" FHD Fanless Multi-Touch Computer

- 10-point Multi-touch, DC 9V to 55V
- Rugged design, IP65 Front Panel Protection
- 4 USB, 2.5GigE LAN, GigE LAN, SIM Socket

Power-efficient Solution (Intel® Core™ i7/i5/i3 U-series Processor)



SPC-7100

Ultra-Compact Fanless System

- 2.5GigE LAN, SIM Socket, 10G USB
- Intel vPro, TSN, TPM 2.0, 5G Ready
- DC 9V to 55V, SW Ignition, -40°C to 75°C



RES-3000

IP67 Rugged Embedded System

- 2 M12 GigE LAN support iAMT 12.0
- 2 M12 COM, M12 2-port USB
- DC 9V to 48V, Fanless -30°C to 70°C



ARS-2000L

Ultra-Compact Fanless System

- 3 GigE LAN, SIM Socket, Isolated COM
- 4 USB, 32 GPIO, DIN Rail Mount
- DC 6V to 36V, Fanless -40°C to 75°C



MTC-7000

Multi-Touch Fanless Computer

- 21.5"/15.6"/15"/10.1" wide-screen
- All-in-one Slim Design, IP65 Front Panel
- 2 GigE LAN, 2 COM, DC 9V to 48V

Entry-level Solution (Intel Atom®/Arm)



PBC-1000

Ultra-Compact Fanless System

- 2 GigE LAN, 2 USB, 2 COM
- SIM Socket for WiFi/5G/4G/BT/LTE/GPRS/UMTS
- DC 12V, Fanless -40°C to 70°C



EIC-2000

Ultra-Compact Edge AI Computing System

- Embedded NPU delivers up to 2.3 TOPS
- 2 GigE LAN, 2 USB, 2 SIM Socket, 2 CAN FD
- DC 9V to 55V, Fanless -25°C to 70°C



AIC-110

Industrial-grade Wireless IoT Gateway

- 2 LAN, 1 USB, 2 COM, 2 CAN Bus, Isolated DIO
- Supports 4G/LTE/WiFi/BT/GPRS/UMTS/LoRaWAN
- DC 9V to 50V, Fanless -25°C to 70°C

One-Stop ESG Solution Service for Digital Factory



Vecow

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