Edge AI for
Smart Factory

- Machine Vision
- Robotic Control
- Data Acquisition

intel® | IoT Solutions Alliance
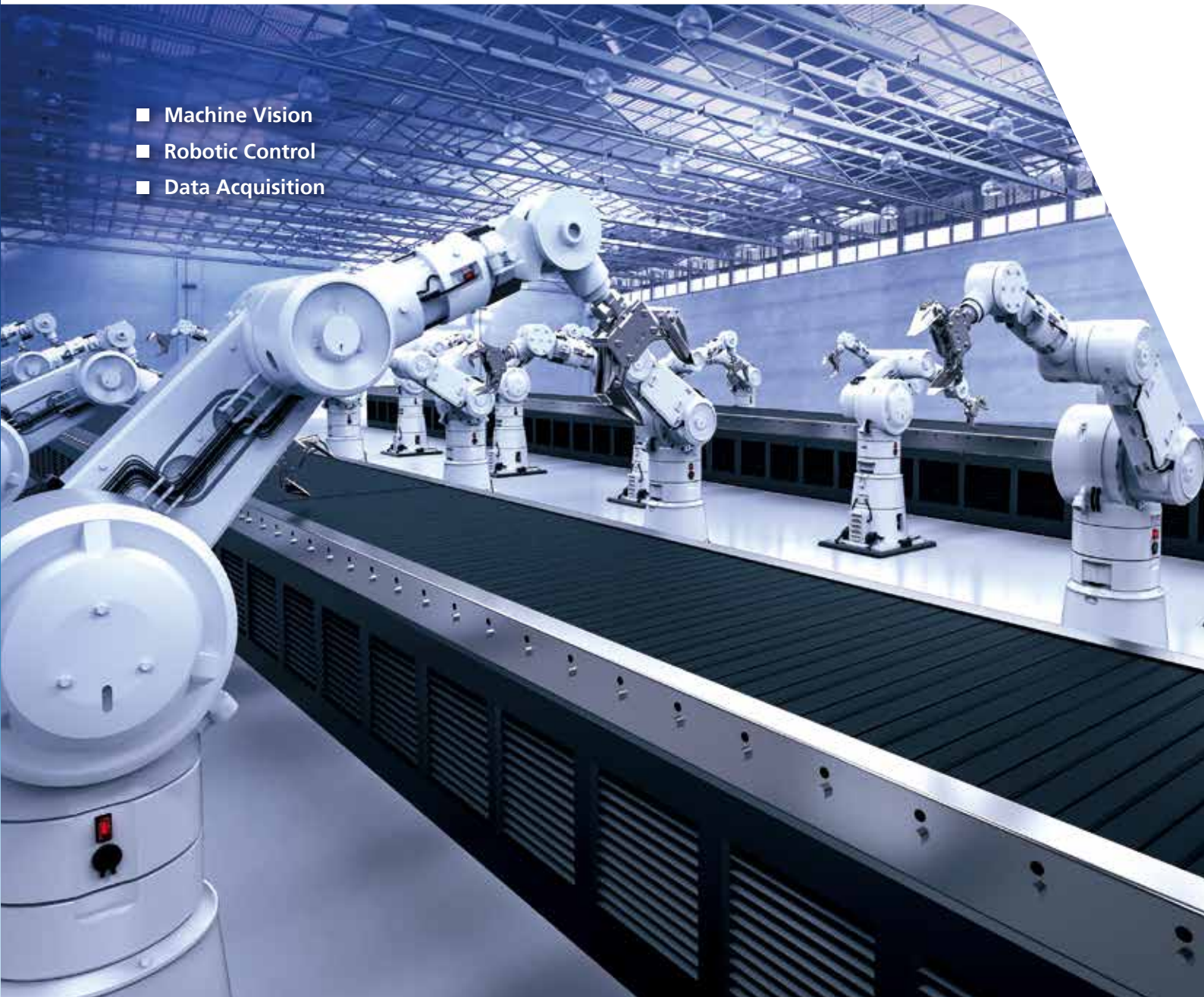
Vecow

Integrated M2M Solution
Makes Intelligent Factory Possible

Vecow Edge AI computing engines

are your powerful and intelligent choice for Machine Vision, Robotic Control, Data Acquisition and any AIoT/Industry 4.0 solutions. Featuring leading system performance, AI computing functions embedded, flexible expansion functions for advanced system management, user-friendly features for remote control and daily operation, compact size for limited space, and trusted system reliability for extended operating temperature. Vecow edge AI computing solutions 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
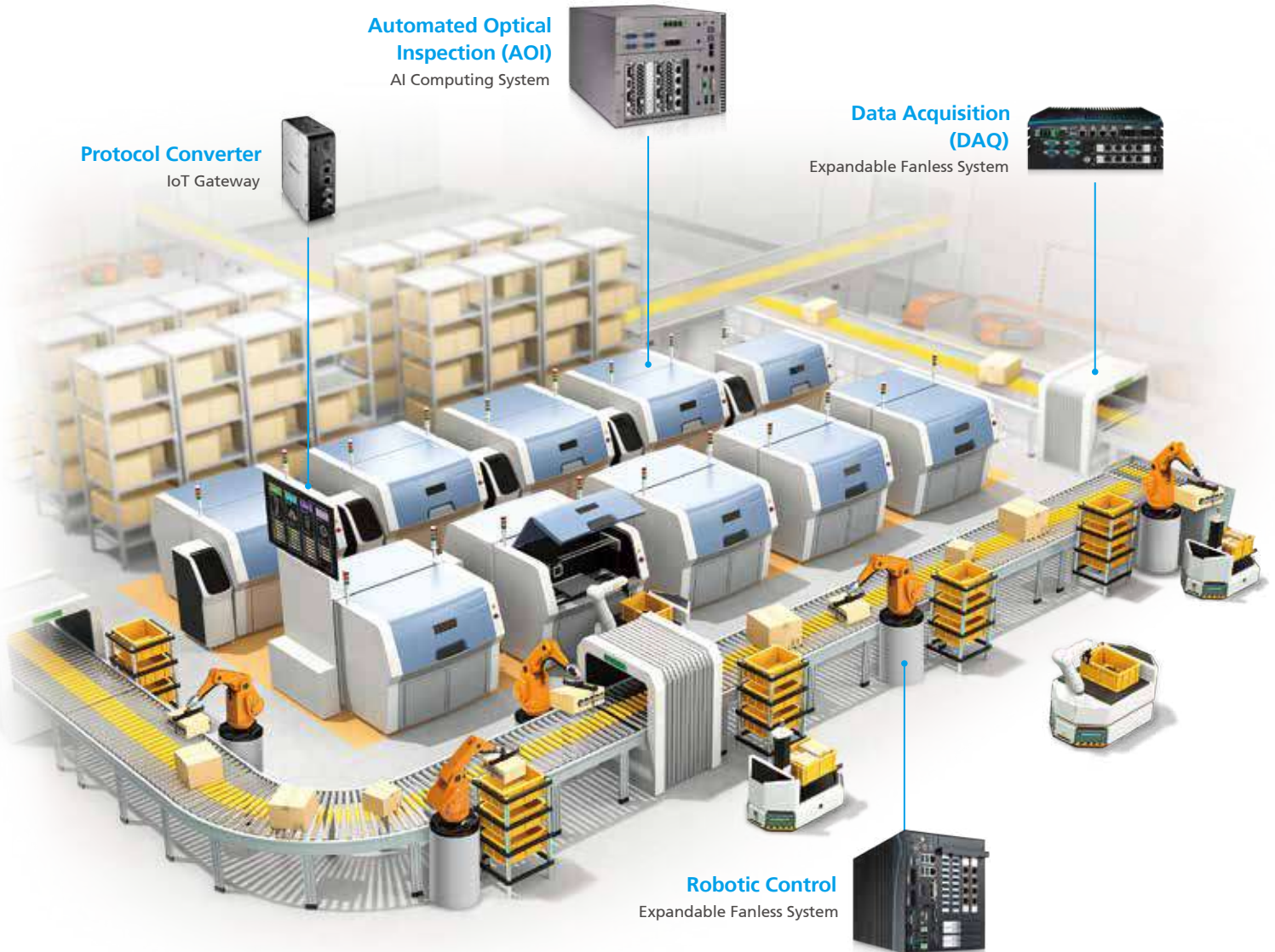
Robotic Control
Expandable Fanless System

Powerful Computer Engines for Yo

Machine Vision Solutions

Vecow machine vision systems are performance-driven computing engines for mission critical real time AI inspection at the Edge. Featuring multiple super speed 10G USB 3.2 Gen 2 connections for video capture, multiple 10G/1G GigE LAN ports support IP cameras, IEEE 802.3at PoE+ (25.5W/48V) for simpler infrastructure requirements in limited operation space, OpenVINO/CUDA Core supported for AI computing, optional Optical Character Recognition (OCR), Optical Character Verification (OCV) and Automated Optical Inspection (AOI) AI inspection training models embedded. Vecow machine vision systems are your proficient solution for any computer vision applications for machine learning, deep learning and any edge AI computing for inspection.
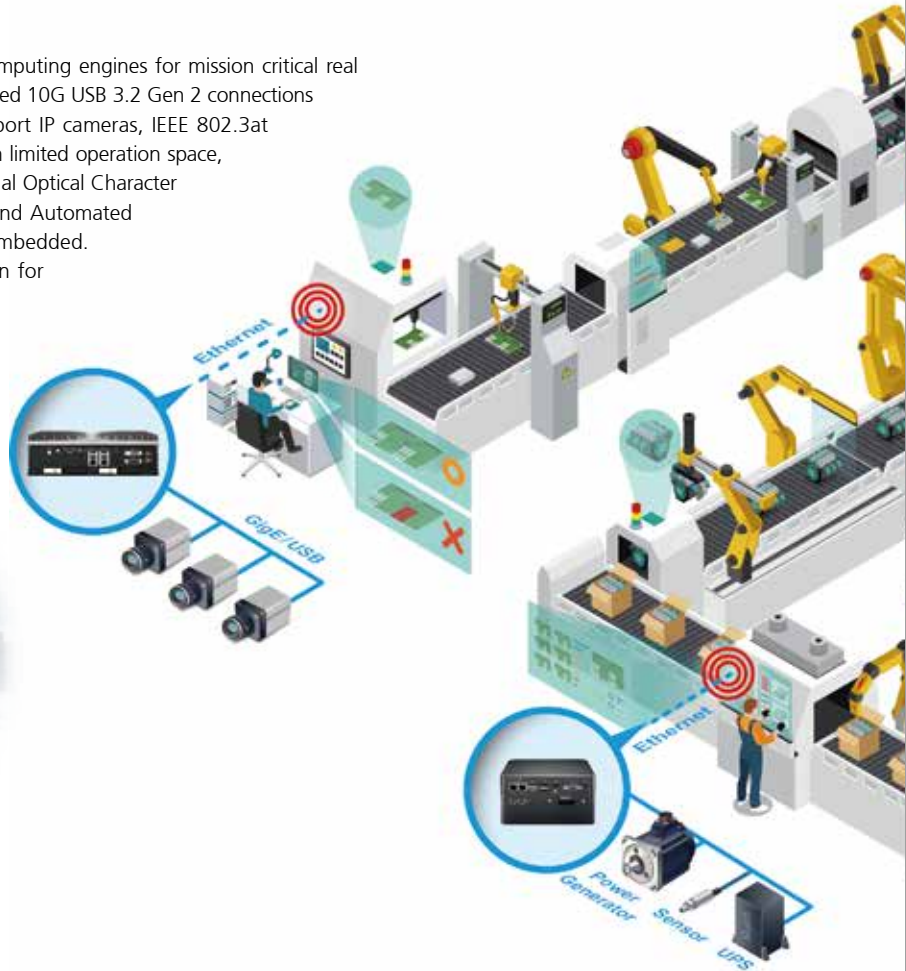
Workstation-grade Solution (Intel® Xeon®/Core™ i7/i5/i3)

ECX-2055/1055

10G LAN High-speed Embedded System
- Dual 10GigE LAN, 4 GigE LAN with PoE+
- 6 USB, M.2 : Key B, Key E, Key M
- DC 6V to 50V, 80V Surge Protection

ECX-2400/1400 PEG

5G Ready, Expandable Fanless System
- Up to 250W NVIDIA/AMD Graphics Card
- 6 USB, 6 GigE LAN with 4 PoE+
- DC 12V to 50V, 80V Surge Protection

RCX-1000 PEG

Expandable AI Computing System
- Up to 300W NVIDIA/AMD Graphics Card
- 6 USB, 4 SSD Tray, 2 PCI/PCIe Slot
- DC 24V to 36V, 80V Surge Protection

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

SPC-5200

Slim Fanless System
- 4 USB, 4 GigE LAN with 2 PoE
- 9V to 48V DC Power Input
- Fanless -40°C to 70°C

ABP-3000

Ultra-Slim Fanless System
- 4 USB, 4 GigE LAN with 2 PoE+
- 9V to 50V DC Power Input
- Fanless -40°C to 70°C

SPC-3055/3071

10G LAN High-speed Fanless System
- Dual 10G RJ45/SFP+ LAN
- 4 USB, 2 GigE LAN
- DC 9V to 36V, Fanless operation

Entry-level Solution (Intel Atom®)

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

our Future Smart Factory

Robotic Control Solutions

Vecow robotic control systems are smart and flexible engines for a variety of machine automation missions at the edge. Equipped with multiple PCI/PCIe/Mini PCI/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 4G/LTE/3G/GPRS/UMTS/WiFi wireless connections support field allocation, time synchronization, and any advanced machine management functions, compact design for limited space over busy production line. Vecow robotic control system is your fit and flexible solution for machine to machine applications.

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

GPC-1000
Expandable AI Computing System
- 4 PCIe Slot, max dual 750W NVIDIA/AMD Graphics Card
- 6 USB, 4 GigE LAN, SUMIT A, B
- DC 9V to 55V, 80V Surge Protection

ECX-2400/1400
Expandable Fanless System
- 2 PCIe Slot with 200W Power Budget
- 6 USB, 6 GigE LAN with 4 PoE⁺, SUMIT A, B
- DC 6V to 36V, 80V Surge Protection

ECX-2000-PoE
Compact Fanless System
- 6 USB, 6 GigE LAN with 4 PoE⁺, SUMIT A, B
- DC 9V to 55V, 80V Surge Protection
- Fanless -40°C to 75°C

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

SPC-5600A
Compact Fanless System
- 4 USB, 4 GigE LAN, 4 COM
- 9V to 36V DC Power Input
- Fanless -25°C to 60°C

SPC-5000
Ultra-Compact Fanless System
- 4 USB, 2 GigE LAN, SUMIT A, B
- 9V to 48V DC Power Input
- Fanless -40°C to 85°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 85°C

Entry-level Solution (Intel Atom®)

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

Data Acquisition Solutions

Vecow data acquisition systems are high-performance and trusted monitoring engines for a smart factory daily operation. Multiple WiFi/4G/LTE/3G/GPRS/UMTS wireless connections support non stop data delivery for cloud computing, multiple 10G/1G ethernet connections for high speed data transfer with no data latency, Open Platform Communications (OPC) and Precision Time Protocol (PTP) supporting advanced machine monitoring and managing features, rugged and fanless designs enable a stable operation in harsh environment. Vecow data acquisition system is your capable and reliable solution for process visualization and predictive maintenance.

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

ECX-2000-2G
Compact Fanless System
- 2 GigE LAN, SIM Socket, 16 Isolated DIO
- DC 9V to 50V, 80V Surge Protection
- Fanless -40°C to 75°C

RCX-1200
Expandable Fanless System
- 2 GigE LAN, SIM Socket, 32 Isolated DIO
- 2 PCI/PCIe Slot with 300W Power Budget
- DC 6V to 36V, 80V Surge Protection

MTC-6000
Multi-Touch Fanless Computer
- 21.5"/19"/17"/15", 10-point Multi-touch
- Rugged design, IP65 Front Panel Protection
- 4 GigE LAN, DC 6V to 36V, 80V Surge Protection

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

SPC-5100
Ultra-Compact Fanless System
- 2 GigE LAN, SIM Socket
- 2 COM, 4 USB, SUMIT A, B
- DC 9V to 48V, Fanless -40°C to 85°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 9V to 48V, Fanless -40°C to 70°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)

SPC-4010
Ultra-Compact Fanless System
- 2 GigE LAN support IEEE 1588 (PTP)
- 2 Isolated COM, 4 USB, 1 SIM Socket
- DC 12V, Fanless -40°C to 75°C

SPC-2000
Ultra-Compact Fanless System
- 2 PoE+ LAN, SIM Socket, CFast, SSD Tray
- Isolated DIO, 4 COM, 4 USB
- DC 6V to 36V, Fanless -25°C to 70°C

VIG-100
Industrial-grade Wireless IoT Gateway
- 2 M12 LAN, SIM Socket, 1 USB, 2 COM
- Optional supports NB-IoT module
- DC 6V to 40V, Fanless -25°C to 70°C

One-Stop **AIoT Solution Service**
VHub Platform

Global Partnership Engagement

- Worldwide Solution Providers Collaboration
- Co-marketing Events Engagement
- Win-win Cooperation

Fully Integrated Ecosystem

- Dedicated Project Team
- Seasoned AIoT Solution Experts
- Less Project TCO

Optimized Accelerate Platform

- Flexible Hardware + Software Solution
- System-ready Solution Aggregator
- Leading Compatibility

VHub

Faster Time-to-Market

Vecow

www.vecow.com
info@vecow.com

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