Enabling Intelligent Solutions with Vecow

Machine Vision · Intelligent Surveillance · Artificial Intelligence · Vehicle Computing
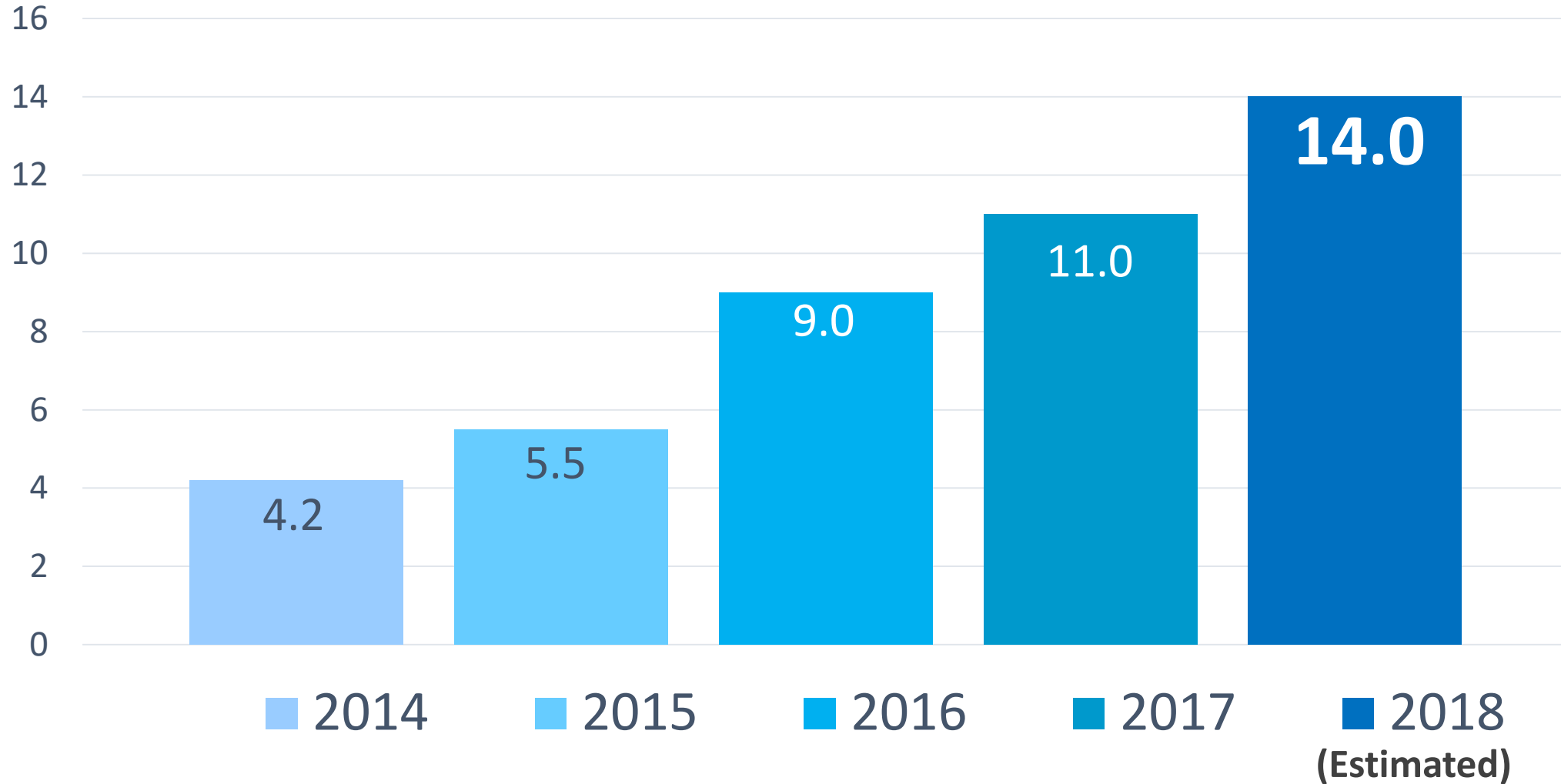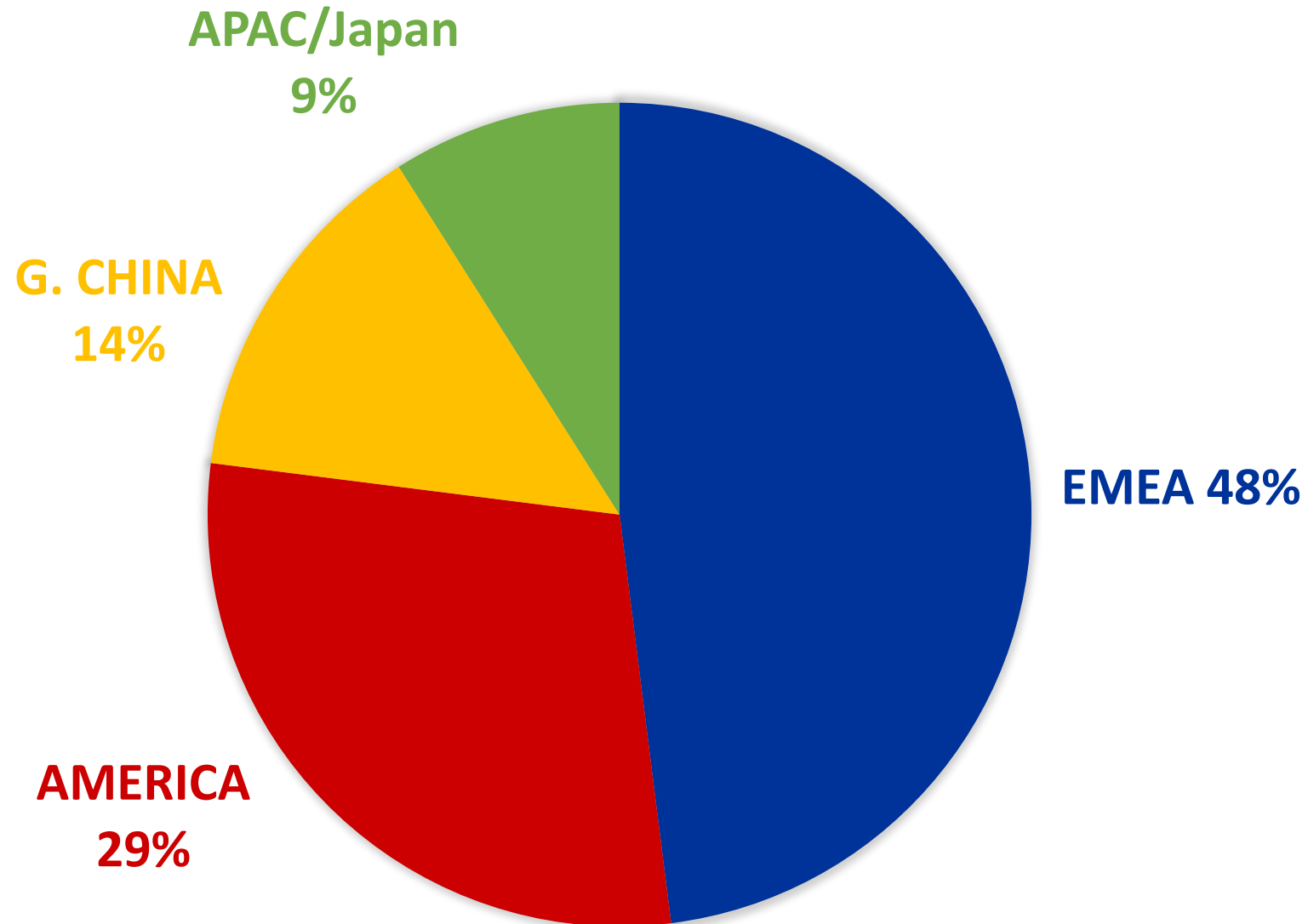
September, 2018

Vecow Brief

- Founded in **2010**
- **Headquarters** in New Taipei City, **Taiwan**
- **Service Center** in **Hong Kong**
- **Manufacturing** Force in **Taiwan** & **China**
- Overseas Office in **Shanghai**, China
- Business covers **EMEA**, **America**, **G. China** & **APAC**, more than **65** countries

Vecow
An aIS Company

Industrial Artificial Intelligence Solutions

Industrial IoT Applications

Surveillance | Power & Energy | Factory Automation | Robot Control | Rolling Stock | Deep Learning

Autonomous Car | Healthcare | Smart Logistics | Traffic Vision | Infotainment | Machine Vision

Embedded Systems | **Panel PCs & Displays** | **3.5" Single Board Computer** | **Embedded Peripherals** | **Design & Manufacturing Services** | **Products & Services Go-to-market**

Vecow Core Competencies

Leading Expertise
- Domain Knowhow
- Performance Driven
- User Oriented

Compact Design
- Integrated Features
- Small Form Factor
- High Reliability

Easy Customization
- Less Efforts
- Lower Cost
- Faster Time-to-Market

Flexible Teamwork
- One-stop Service
- Top-tier Ecosystem
- Win-win Partnership

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Vecow Core Competencies

Leading Expertise
- IPC Domain Knowhow
- Performance Driven
- User-friendly Oriented

Compact Design
- Integrated Features
- Single-board/Small Form Factor Solution
- Industrial-grade Reliability

Easy Customization
- Less Engineering Efforts
- Lower Total Project Cost
- Faster Time-to-Market

Flexible Teamwork
- One-stop Service
- World-leading Ecosystem
- Win-win Partnership

Leading Expertise

◆ IPC Domain Knowhow

- Seasoned IPC/Embedded Experts

- In-house Capacity : Hardware R&D, Software R&D, ME, Production, Quality Assurance

- World-wide Successful Stories

◆ Performance Driven

- Workstation-grade CPU

- Independent Graphics

- Leading Data Rate

◆ User-friendly Oriented

- Front-access Management

- Secured Device Support

- Flexible Customization, Less Setup Effort

Compact Design

◆ Integrated Features
- All-in-one integrated features
- Multiple I/O & expansion functions
- Performance oriented

◆ Small Form Factor
- Single-board solution
- Ultra-Slim, Ultra-Compact design

◆ Industrial Grade Reliability
- Board-to-board, Cable-less
- Fanless -40°C to 75°C Wide Range Operating Temperature
- Wide Range Power Input
- Ignition Power Control
- Surge Protection
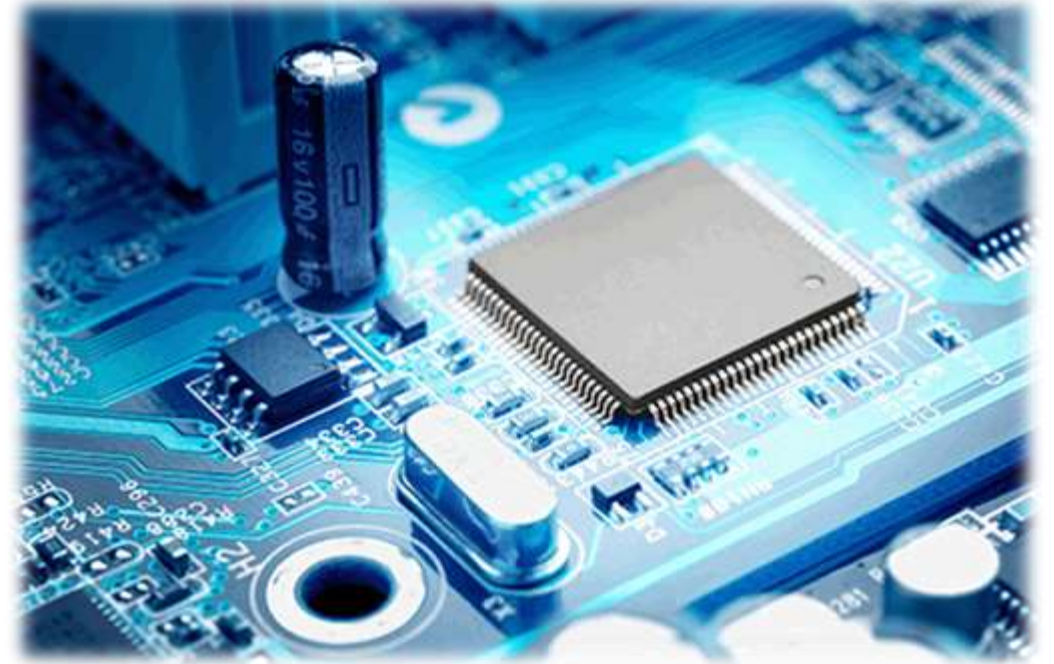- IP67 Compliant
- Anti-shock & Anti-vibration

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Easy Customization

◆ Less Engineering Change Efforts
- Modularized Designs
- Simplified Functions
- Mechanical Customization

◆ Lower Total Project Cost
- Less R&D Efforts
- Smarter Project Management
- Win-win Teamwork

◆ Faster Time-to-Market
- SUMIT (PCIe)
- PCI/PCIe
- Mini PCIe

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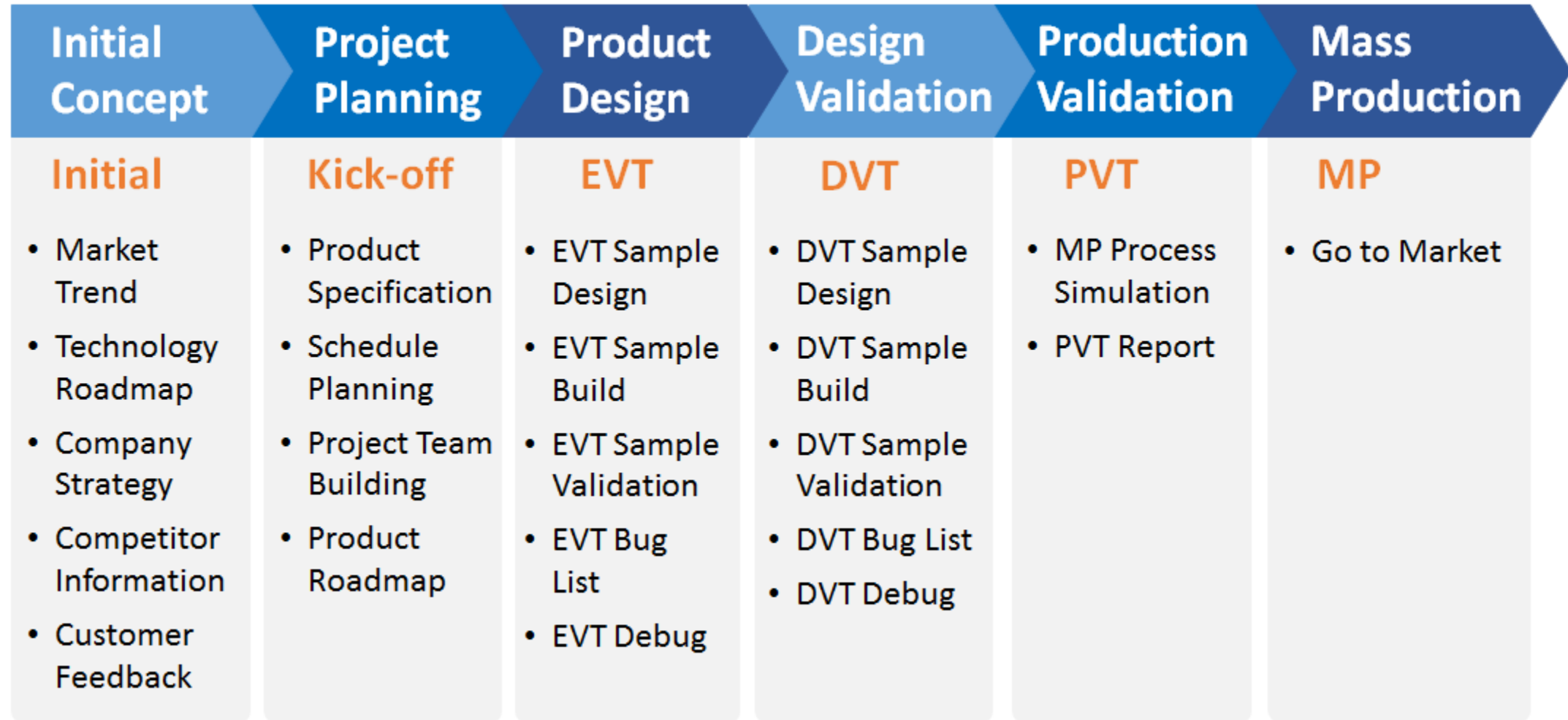An ais Company

Flexible Teamwork

◆ One-stop Service/Solution

- R&D, Project Management, Production & Quality Validation
- Dedicated Manufacturing Capacity

◆ World-leading Ecosystem

- Intel IoT Solution Alliance
- VMware Elite TAP Partner
- EtherCAT Technology Group
- AIA Member
- Windows Embedded

◆ Win-win Partnership

- Less Project Leadtime
- Seamless Teamwork
- Quality Deliveries

NPI Process

Initial Concept	Project Planning	Product Design	Design Validation	Production Validation	Mass Production
Initial	**Kick-off**	**EVT**	**DVT**	**PVT**	**MP**
• Market Trend • Technology Roadmap • Company Strategy • Competitor Information • Customer Feedback	• Product Specification • Schedule Planning • Project Team Building • Product Roadmap	• EVT Sample Design • EVT Sample Build • EVT Sample Validation • EVT Bug List • EVT Debug	• DVT Sample Design • DVT Sample Build • DVT Sample Validation • DVT Bug List • DVT Debug	• MP Process Simulation • PVT Report	• Go to Market

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Manufacturing Force

- Taoyuan, Taiwan

- Kunshan, China

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Manufacturing Force Overview

32,000+ M²
Manufacturing Space

1,000+
Manufacturing Employees

20+ Million
IPC Systems in Services

MANUFACTURING OVERVIEW

15+ Years Experiance

A Product Defect Rate
**Less Than 0.3%
(3,000 PPM)**

IPC System Assembly Annual Capacity of
1.8 Million Systems

PCB and PCBA Assembly Annual Capacity of
2.8 Million Pieces

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System and Regulatory Certificate Approvals

ISO9001 Certification

UL Factory Certification

CSA Factory Certification

Nemko Certification

ISO14001 Certification

Demko Certification

TUV Factory Certification

CCC Factory Certification

Manufacturing Facilities

SMT Line

- ✓ Fully ESD & Climate Controlled
- ✓ AOI and 3D/5D X-Ray Inspection
- ✓ In-circuit Test (ICT), Burn in Test (BIT) & Functional Test
- ✓ ISO File Management
- ✓ Lead-Free & RoHS Compliant PCB and PCBA
- ✓ PCB & PCBA Assembly Annual Capacity of 2.8M pcs

Cleanroom Assembly

- ✓ ISO 9001:2008 Certified
- ✓ ISO 14644-1 Cleanroom
- ✓ ISO 3 Class 1 (Class 1,000) Cleanrooms and Controlled
- ✓ 4,000+ Square Feet of Cleanroom MFG Space
- ✓ IPC System Assembly Annual Capacity more than 500,000 Systems

Laboratory

- ✓ Scanning Electron Microscopy for SMT Quality Analysis
- ✓ High-performance Environmental Chambers
- ✓ Shock and Vibration Testing Equipment
- ✓ Spectroscopy Equipment for RoHS Compliant Testing
- ✓ Acoustic Equipment for Noise & Vibration Measure, and Sound Quality Testing

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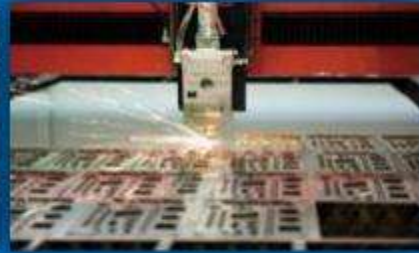An ais Company

What's New in 2018 2nd Half

ECX-1000 8th Gen Intel Xeon/Core i7/i5/i3 Workstation-grade Fanless Embedded System

Robotic Control

Vehicle Computing

Machine Vision

Intelligent Surveillance

Energy Management

10GigE

Leading Integration

- ✓ Flexible Socket Type CPU
- ✓ DVI-I, DVI-D, DisplayPort
- ✓ 3 SIM Socket, 2 2.5" SSD Tray, 1 CFast Socket
- ✓ 6 USB 3.1, 4 COM
- ✓ 9 Independent GigE LAN w/4 PoE+
- ✓ 2 Mini PCIe, 2 SATA III, M.2, SUMIT A, B

Workstation-grade Performance

- ✓ 6-core Intel Xeon/Core i7/i5/i3 + Intel C246 chipset (Coffee Lake-S)
- ✓ Max 10% System Performance↑
- ✓ WiFi/4G/3G/LTE/GPRS/UMTS
- ✓ USB 3.1 (10G), 10GigE LAN (10G), PCIe 3.0 (8GT/s), SATA III (6G), USB 3.0 (5G), PoE+ (1G), GigE LAN (1G)

Smart Manageability

- ✓ Front-access : 2 2.5" SSD Tray, SIM Socket, CFast Socket
- ✓ Smart Power Protection
- ✓ Smart Circuit Protection
- ✓ Remote Power Switch
- ✓ TPM 2.0, iAMT 12.0, S/W RAID 0, 1

Trusted Reliability

- ✓ Fanless -40℃ to 75℃ Operation
- ✓ 6V to 36V DC-in with 80V Surge Protection
- ✓ 16 Isolated DIO
- ✓ 16-mode Programmable Ignition Power Control
- ✓ EN50155, EN50121-3-2
- ✓ Anti-shock, Anti-vibration

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ECX-1200 8ᵗʰ Gen Intel Xeon/Core i7/i5/i3 Workstation-grade Expandable Fanless System

Machine Vision   **Rolling Stock**   **Factory Automation**   **Intelligent Control**   **Smart Manufacturing**

System-oriented Integration

- ✓ Max 200W power budget for PCIe x16 expansion
- ✓ Smart Power Protection
- ✓ Smart Circuit Protection
- ✓ Smart Manageability : iAMT 12.0, TPM 2.0, PXE, Wake on LAN, S/W RAID 0, 1
- ✓ Remote Power Switch

Workstation-grade Performance

- ✓ 6-core Intel Xeon/Core i7/i5/i3 + Intel C246 chipset (Coffee Lake-S)
- ✓ Max 10% System Performance↑
- ✓ WiFi/4G/3G/LTE/GPRS/UMTS
- ✓ USB 3.1 max 10G data rate
- ✓ PCIe 3.0 (8GT/s), SATA III (6G), USB 3.0 (5G), PoE+ (1G), GigE LAN (1G)

Flexible Configuration

- ✓ Expansion : 1 PCI/PCIe Slot, 2 Mini PCIe/mSATA, 1 M.2, optional SUMIT A, B
- ✓ 6 Independent GigE LAN with 4 M12 PoE+
- ✓ 3 SIM Socket, 2 2.5" SSD Tray, 1 CFast Socket, 4 COM
- ✓ 32 Isolated DIO, 6 USB 3.1
- ✓ VGA, DVI-D, DisplayPort

Rugged Reliability

- ✓ Rigged M12 Connections
- ✓ Fanless -40℃ to 75℃ Operation
- ✓ 6V to 36V DC-in with 80V Surge Protection
- ✓ Smart Circuit Protection
- ✓ Ignition Power Control
- ✓ EN50155, EN50121-3-2
- ✓ Anti-shock, Anti-vibration

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Everyone deserves a better system

ECX-1400 8th Gen Intel Xeon/Core i7/i5/i3 Expandable Fanless Embedded Workstation

Machine Vision

Vehicle Computing

Deep Learning

Intelligent Surveillance

Robotic Control

System-oriented Integration

- ✓ Max 200W power budget for PCIe x16 expansion
- ✓ Smart Power Proteciton
- ✓ Smart Circuit Protection
- ✓ Smart Data Protection
- ✓ Smart Manageability : iAMT 12.0, TPM 2.0, PXE, Wake on LAN
- ✓ Remote Power Switch

Workstation-grade Performance

- ✓ 6-core Intel Xeon/Core i7/i5/i3 + Intel C246 chipset (Coffee Lake-S)
- ✓ Max 10% System Performance↑
- ✓ WiFi/4G/3G/LTE/GPRS/UMTS
- ✓ USB 3.1 max 10G data rate
- ✓ PCIe 3.0 (8GT/s), SATA III (6G), USB 3.0 (5G), PoE+ (1G), GigE LAN (1G)

Versatile Configuration

- ✓ Expansion : 2 PCI/PCIe Slot, 2 Mini PCIe/mSATA, 1 M.2, optional SUMIT A, B
- ✓ 6 GigE LAN with 4 PoE+
- ✓ Storage : 4 2.5" SSD trays, 1 CFast socket, 1 M.2
- ✓ 3 SIM Socket, 32 Isolated DIO, 6 USB 3.1, 4 COM
- ✓ VGA, DVI-D, DisplayPort

Trusted Reliability

- ✓ RAID 0, 1, 5, 10 Data Protection
- ✓ Fanless -40°C to 75°C Operation
- ✓ 6V to 36V DC-in with 80V Surge Protection
- ✓ Smart Circuit Protection
- ✓ Ignition Power Control
- ✓ EN50155, EN50121-3-2
- ✓ Anti-shock, Anti-vibration

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SPC-4010/4020 Intel Atom® E3950 Ultra-compact Fanless Embedded System

Machine Vision

Infotainment System

Factory Automation

Intelligent Control

Robotic Control

Excellent Energy-efficiency

- ✓ Quad core Intel Atom E3950 SoC (Apollo Lake-I)
- ✓ Intel HD Graphics 505 supports lockable HDMI & VGA dual display, max 4K ultra HD resolution
- ✓ 200% CPU performance↑, 150% graphics performance ↑over the prior generation

Compact Integration

- ✓ Small Form Factor
- ✓ Dual display interface: lockable HDMI and VGA, supporting up to 4K HD resolution
- ✓ 4 USB, 1 2.5" SSD, 1 SIM socket, 3 Mini PCIe, SATA III
- ✓ 4 COM RS-232/422/485 with 2 islolated

Industrial-grade Reliability

- ✓ Fanless -40°C to 85°C operation temperature
- ✓ Support 12V DC power input or optionally for 9V-36V wide range DC-in
- ✓ 4 COM RS-232/422/485 with 2 Isolated
- ✓ 16 Isolated DIO, TPM 2.0
- ✓ EN50155, EN50121-3-2

System-oriented Solution

- ✓ 2 independent GigE LAN with IEEE 1588 (PTP, The Precision Time Protocol) for real time systematic communication
- ✓ Versatile expansion: 3 Mini PCIe and 1 NGFF M.2 Key B socket for mSATA/PCI/PCIe/USB 3.0

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SPC-4500/4600 Series Intel Atom® E3950 Ultra-compact Fanless PoE+ Embedded System

Machine Vision

In-vehicle Computing

Factory Automation

Intelligent Control

Robotic Control

Excellent Energy-efficiency

- ✓ Quad core Intel Atom E3950 SoC (Apollo Lake-I)
- ✓ Intel HD Graphics 505 supports DVI & DisplayPort dual display, max 4K display
- ✓ 200% enhanced in graphics performance & 150% in CPU performance over the prior generation

Compact Integration

- ✓ Small Form Factor
- ✓ Dual display interface including DVI-I and DP, up to 4K resolution
- ✓ 4 external USB 3.0, 1 2.5" SSD, external SIM, 1 SATA III
- ✓ 4 COM RS-232/422/485, 2 Mini PCIe for PCIe/USB/SIM card

Rugged Reliability

- ✓ Fanless -40°C to 85°C operation temperature
- ✓ 12V DC power input or 9V-36V wide range DC power input
- ✓ Configurable Ignition Power Control
- ✓ 16 Isolated DIO, TPM 2.0
- ✓ EN50155, EN50121-3-2

System-oriented Solution

- ✓ 2 GigE LAN supporting IEEE 802.3at PoE+
- ✓ 2 independent GigE LAN with IEEE 1588 (PTP) for real time systematic communication
- ✓ Configurable Ignition Power Control for harsh environments

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Product Categories

Embedded Systems

- ◆ High-performance Fanless Systems
- ◆ Ultra-Compact Fanless Systems
- ◆ Expandable Robust Computing Systems
- ◆ PoE+ Embedded Systems
- ◆ M12 Embedded Systems
- ◆ GPU Computing Systems
- ◆ 10GigE Embedded Systems
- ◆ LAN Switch Systems
- ◆ Arm-based IoT Gateway

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High-performance Fanless Systems

ECX-1000
(Coffee Lake)

ECS-9000/9200MXC(M12)
(Kaby Lake-S)

IVH-9200 (M12)
(Kaby Lake-S)

IVH-9000
(Skylake-H)

ECS-8000
(Broadwell-H)

IVH-7700 (M12)
(Ivy Bridge)

ECS-7000/7800
(Ivy Bridge)

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Ultra-Compact Fanless Systems

Everyone deserves a better system

SPC-4010/4020
(Apollo Lake-I)

SPC-4500/4600
(Apollo Lake-I)

RES-1000 (M12)
(Skylake-U)

VIG-100 (M12)
(Cortex-A7)

ARS-2000 (M12)
(Kaby Lake-U)

ECS-4500 (PoE+/PD)
(Skylake-U)

SPC-3000/3500
(Skylake-U)

ECS-4000
(Broadwell-U)

SPC-2000/2900
(Bay Trail)

ABP-2000
(Bay Trail)

Expandable Robust Computing Systems

ECX-1400
(Coffee Lake)

ECX-1200 (M12)
(Coffee Lake)

ECS-9200/9100
(Kaby Lake-S)

ECS-9700/9600
(Skylake-H)

ECS-7700/7100
(Ivy Bridge)

RCS-9000F
(Kaby Lake-S)

RCS-9000
(Kaby Lake-S)

RCS-7000
(Ivy Bridge)

RCS-2000
(Bay Trail)

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PoE+ Embedded Systems

SPC-4600
(Apollo Lake-I)
2-port PoE+

ECX-1000/1200/1400
(Coffee Lake)
4-port PoE+

ARS-2000 (M12)
(Kaby Lake-U)
2-port M12 PoE+

ECS-9000/9200/9700
(Kaby Lake-S/Skylake-H)
X-coded/A-coded M12 PoE+

IVH-9000/9200
(Skylake-H/Kaby Lake-S)
16-port PoE+/4-port M12 PoE+

ECS-4500
(Skylake-U)
4-port PoE+/2-port PD

ECS-8000/4000
(Broadwell-H/Broadwell-U)
4-port PoE+

IVH-7700 (M12, ICY)
(Ivy Bridge)
4-port M12 PoE+, ICY HDD Tray

ECS-7700/7800
(Ivy Bridge)
4-port PoE+

SPC-2845
(Bay Trail)
2-port PoE+

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M12 Embedded Systems

ECX-1200 (M12)
(Coffee Lake)

RES-1000 (M12)
(Skylake-U)
2-port X-coded M12 LAN,
2-port M12 COM, 2-port M12 USB,
1-port M12 Power

VIG-100 (M12)
(Cortex-A7)
2-port M12 LAN

ARS-2000M/ML
(Kaby Lake-U)
2-port M12 PoE+

ECS-9200MXC
(Kaby Lake-S)
X-coded/A-coded M12 PoE+,
2-port CAN Bus

ECS-9200M
(Kaby Lake-S)
4-port M12 PoE+,
PCI/PCIe Expansion

IVH-9200MXC
(Kaby Lake-S)
X-coded/A-coded M12 PoE+,
2-port CAN Bus

IVH-7700-QRDM
(Ivy Bridge)
4-port M12 PoE+, 4 SSD Tray,
4 SIM Socket

IVH-7700-QRDM ICY
(Ivy Bridge)
4-port M12 PoE+, 4 ICY HDD Tray,
4 SIM Socket

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GPU Computing Systems

EVS-1000
(Kaby Lake-S + GeForce GT 1030/GTX 1050)
Fanless, 8K resolution, max 6 HD displays

EVS-1100
(Kaby Lake-S + GeForce GTX 1070/1060/1050)
8K resolution, max 7 HD displays

RCS-9000F GTX1080
(Kaby Lake-S + GeForce GTX 1080)
8K resolution, 7 HD displays

ECS-9200 GTX1050
(Kaby Lake-S + GeForce GTX 1050Ti/1050)
8K resolution, max 7 HD displays & 8 PoE

ECS-9700 GTX1050
(Skylake-H + GeForce GTX 1050Ti/1050)
8K resolution, max 7 HD displays & 8 PoE

ECS-9755/9771 GTX1050
(Skylake-H + GeForce GTX 1050Ti/1050)
8K resolution, max 7 HD displays, 10GigE RJ45/SFP+

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10GigE Embedded Systems

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NEW ECX-1055
(Coffee Lake)
2-port 10GigE RJ45

NEW ECX-1071
(Coffee Lake)
2-port 10GigE SFP+

ECS-9071/9055
(Kaby Lake-S)
2-port 10GigE RJ45/SFP+

ECS-9771/9755
(Skylake-H)
4-port 10GigE RJ45/SFP+

SPC-3071/3055
(Skylake-U)
2-port 10GigE RJ45/SFP+

ECS-9771/9755 GTX1050
(Skylake-H + GeForce GTX 1050Ti/1050)
8K resolution, max 7 HD displays, 10GigE RJ45/SFP+

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LAN Switch Systems

ECS-9160
(Kaby Lake-S/Skylake-S)

Arm-based IoT Gateway

VIG-100 (M12)
(Cortex-A7)

Multi-Touch Panel PCs & Displays

◆ Industrial-grade IP65 Multi-Touch Panel PC (21.5″/19″/17″/15″)

◆ Industrial-grade IP65 Multi-Touch Display (24"/21.5″/19″/17″15″)

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Embedded SBCs & Peripherals
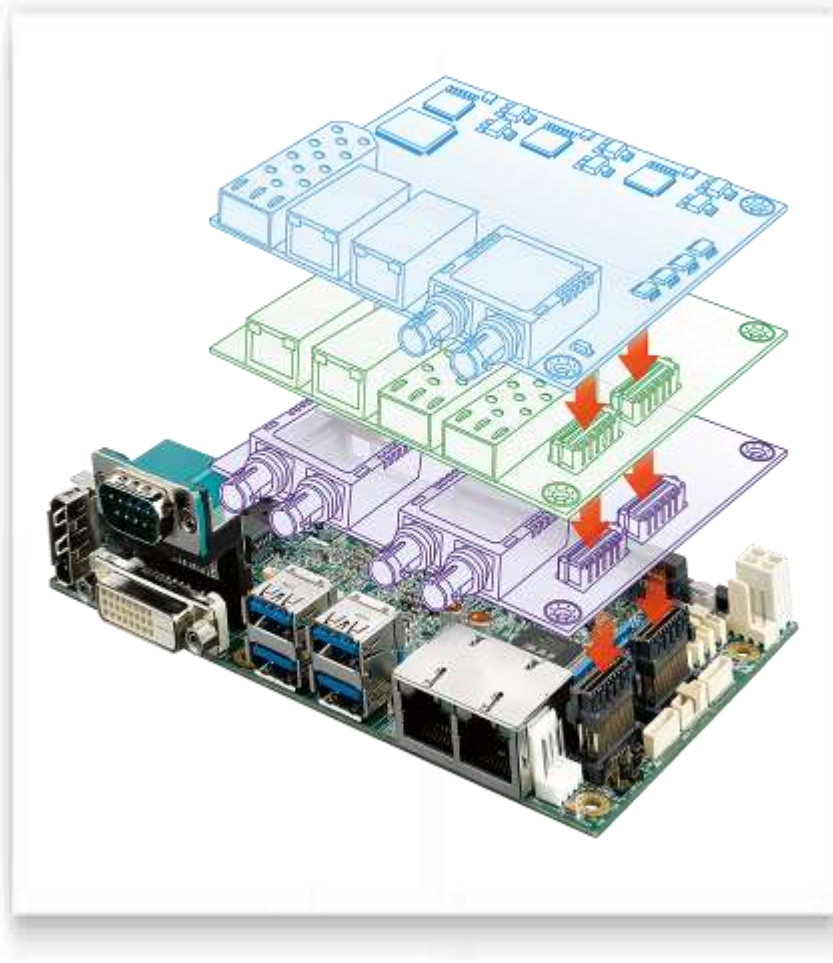
◆ 3.5" Single Board Computers (SBCs)

◆ SUMIT Expansion Cards

◆ PCI/PCIe Expansion Cards

◆ Mini PCIe Modules

◆ Industrial-grade Wide Temperature Accessories

Versatile & Scalable SUMIT Expansion

- Multiple 10GigE LAN

- Multiple ST Fiber

- Multiple 10GigE SFP+ Fiber

- Multiple USB 3.1

Customized SUMIT Expansion

- Multiple SIM Socket

One-stop SUMIT Expansion Design & Manufacturing Services

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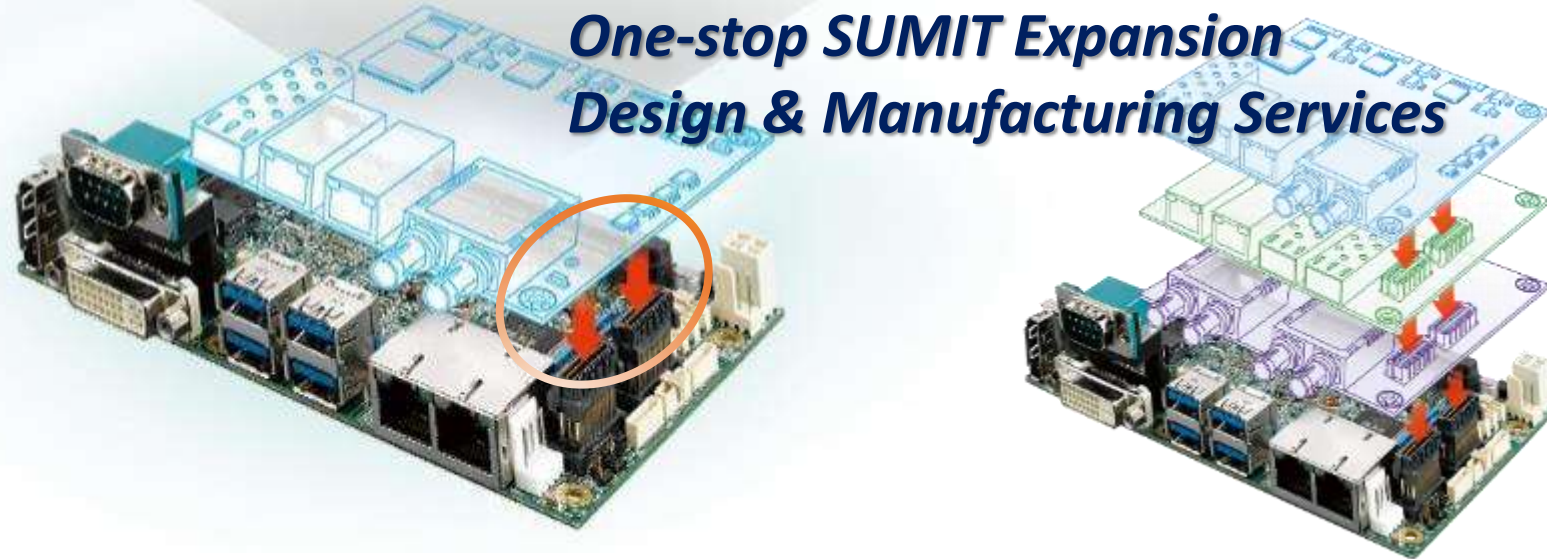
Slim Box PC Powered by SFF 3.5" SBC
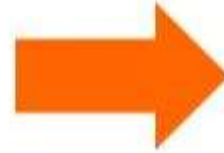
Application Scenarios

Everyone deserves a better system

Smart Manufacturing
Logistic Management

Power & Energy
Real-Time SCADA

Intelligent Healthcare
Self-Service Kiosk

Logging & Mining
In-Vehicle Operation

Automated Guided Vehicle
Smart Retail

Vecow Worldwide Coverage

Traffic Vision
Real-Time Rolling Stock Wayside Surveillance

Intelligent Automation
Factory & Production Management

Smart Retail
Guest Counting & Preference Analysis

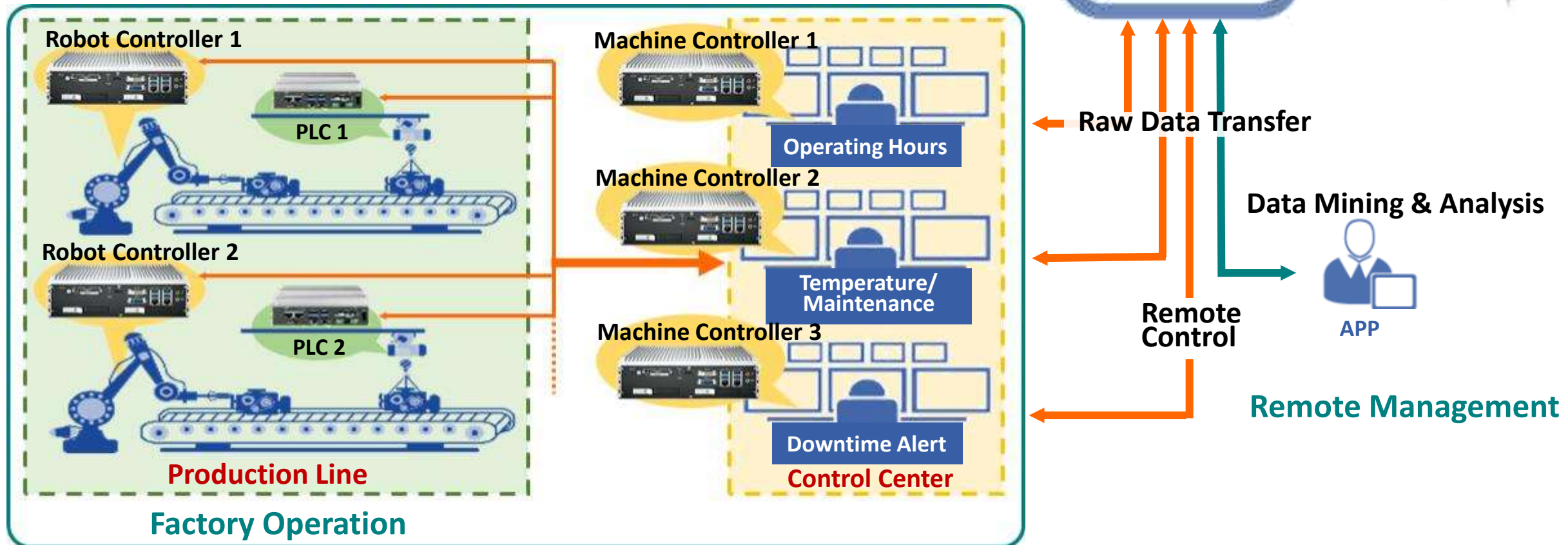**Intelligent Traffic**
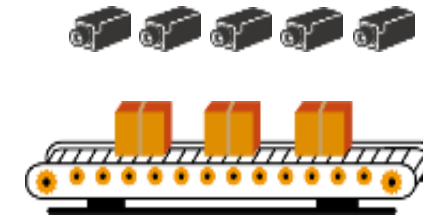**Route Plan, Fleet & Parking Management**

Industrial AI
Robotic Control

Logistics Management

◆ **Venue: Warehouse in Germany**

◆ **Scenario: Intelligent Inspection for Logistics Management**

◆ **Product: ECS-7000-6GD**

Surveillance Server

Inspection Server

Control Center

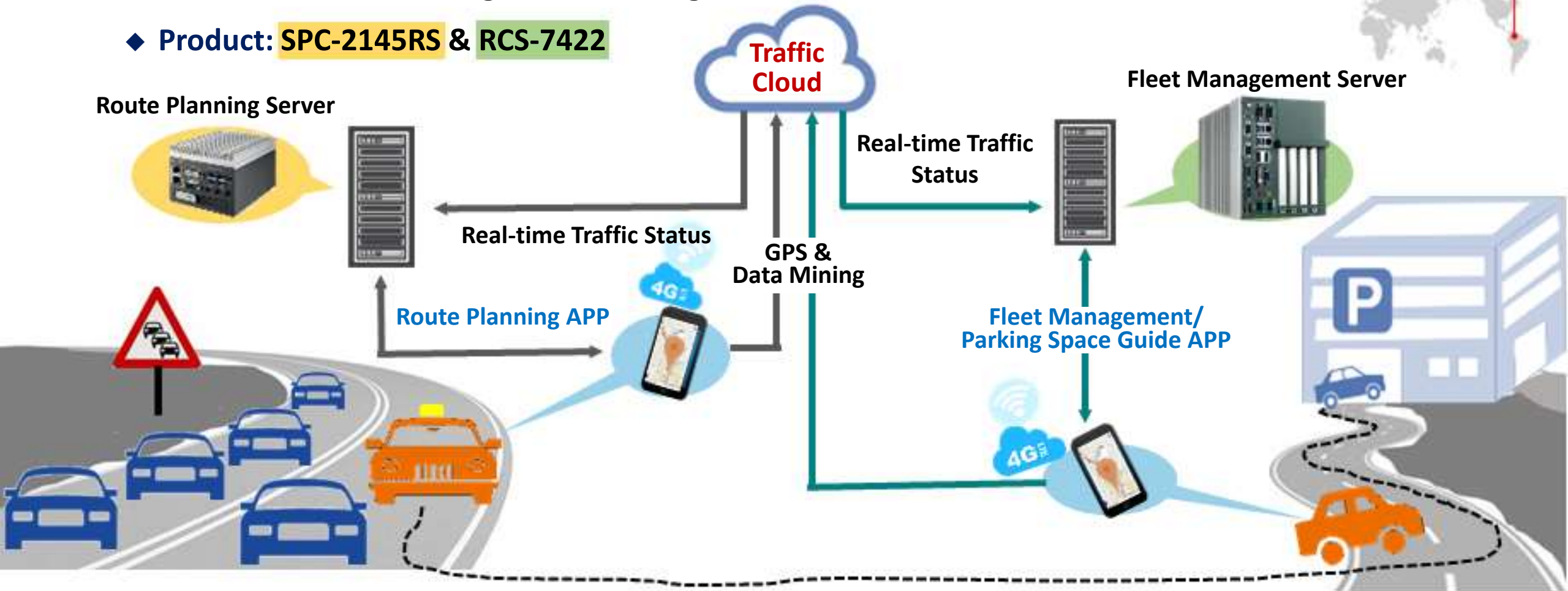| 3D Warehouse Surveillance	2D Smart Inspection	3D Intelligent Inspection
Inbound Goods Checking, Production Line Surveillance, Trouble Alarm, Action Commands	Barcode Scan, Database Tracking (Content, Destination, Weight, Size), Trouble Alarm, Action Commands	Box Outlook Checking, Damage Alarm, Database Checking, Action Commands

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Intelligent Traffic

◆ **Venue:** **Public Intelligent Transportation System in Brazil**

◆ **Scenario:** **Route Planning & Fleet Management**
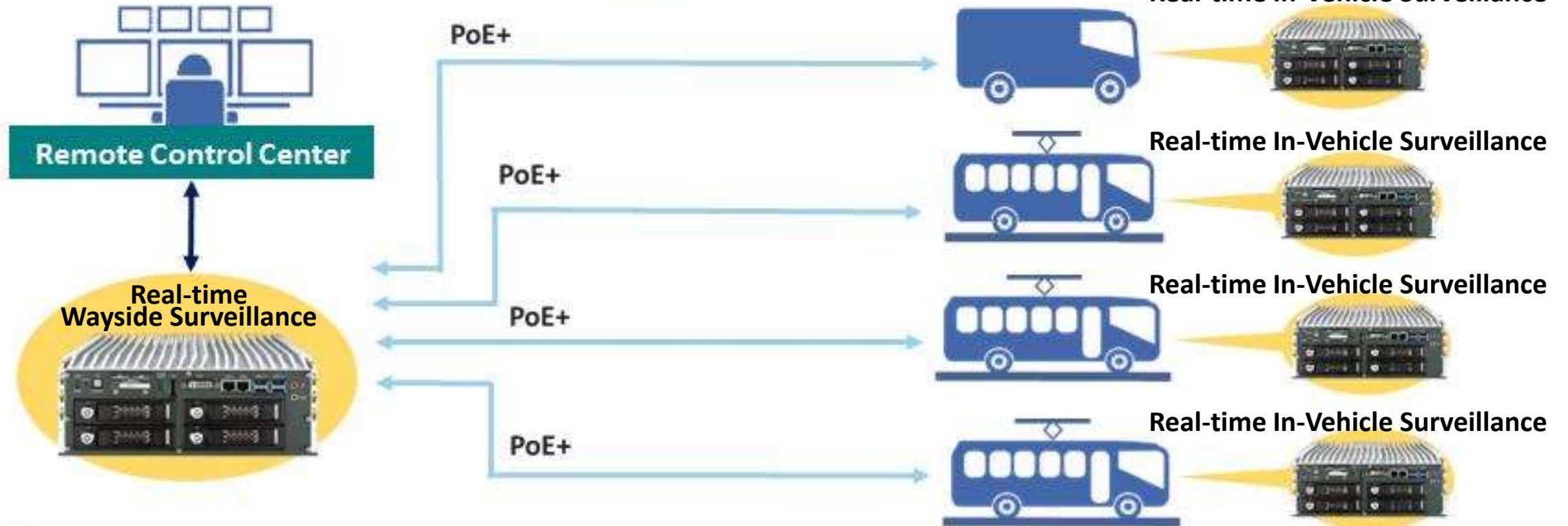
◆ **Product:** **SPC-2145RS** & **RCS-7422**

Traffic Cloud

Fleet Management Server

Route Planning Server

Real-time Traffic Status

Real-time Traffic Status

GPS & Data Mining

Route Planning APP

Fleet Management/ Parking Space Guide APP

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In-Vehicle Operation

◆ **Venue: Rugged Terrains in North America**

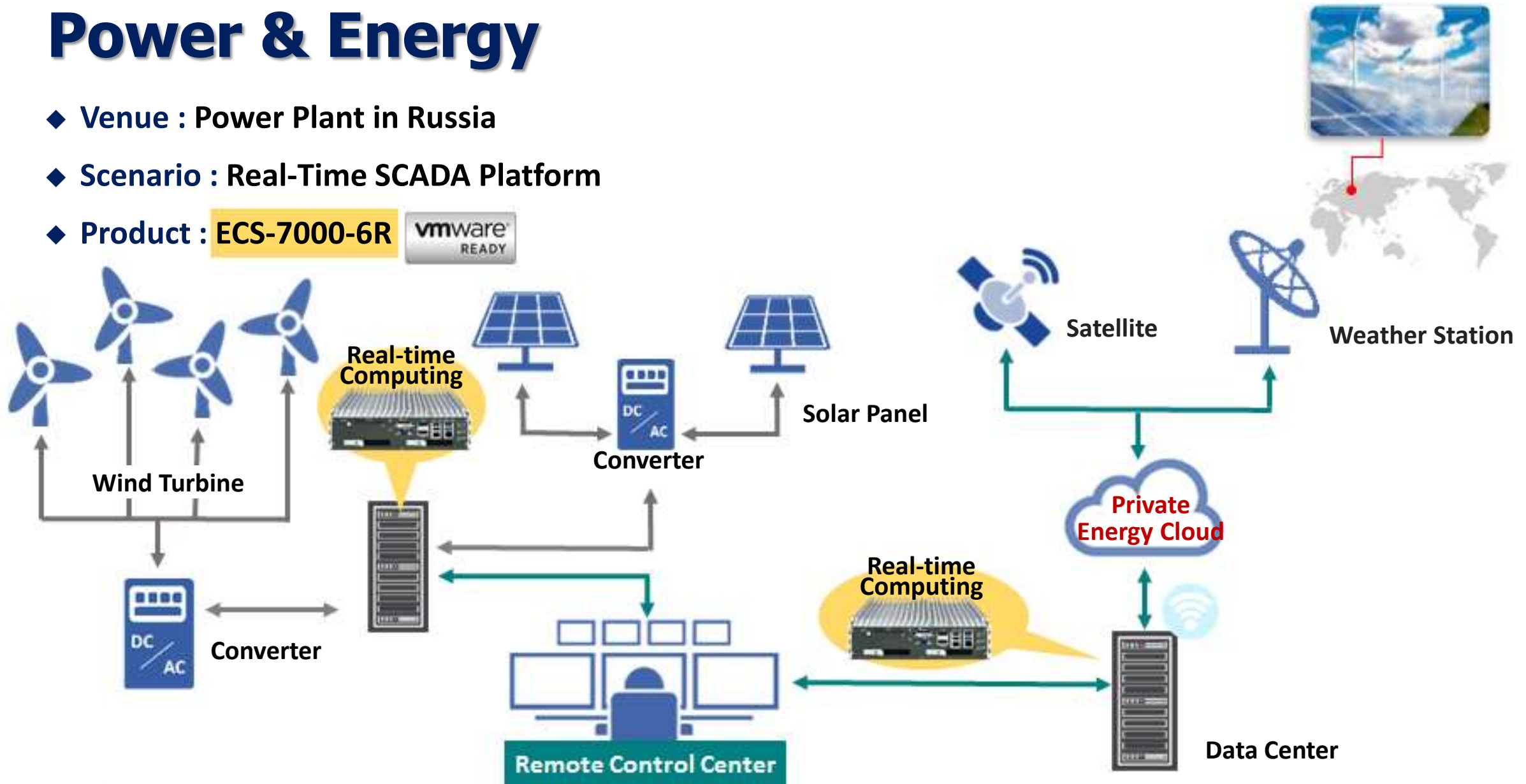◆ **Scenario: Logging & Mining Applications**

◆ **Product: IVH-9016-PoER**

Logging/Mining Cloud

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Traffic Vision

◆ **Venue:** Subway in Europe

◆ **Application: Real-time Rolling Stock Surveillance**

◆ **Product:** IVH-7700-QRDM-ICY (M12)   EN50155

Remote Control Center

Real-time
Wayside Surveillance

PoE+

PoE+

PoE+

PoE+

Real-time In-Vehicle Surveillance

Real-time In-Vehicle Surveillance

Real-time In-Vehicle Surveillance

Real-time In-Vehicle Surveillance

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Intelligent Healthcare

◆ **Venue: Hospital in Japan**

◆ **Scenario: Self-Services Kiosk**

◆ **Product: SPC-3520**

SELF SERVICE

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Appointment System

Registration

Waiting for Outpatient

Medical Treatment

Payment System

Prescription & Payment

Information System

Communication System

**Information Service:
Floor Plan/Surgery Status ...**

Smart Retail

◆ **Venue: Super Market in Korea**

◆ **Scenario: Guest Counting & Preference Analysis**

◆ **Product: ECS-9210**
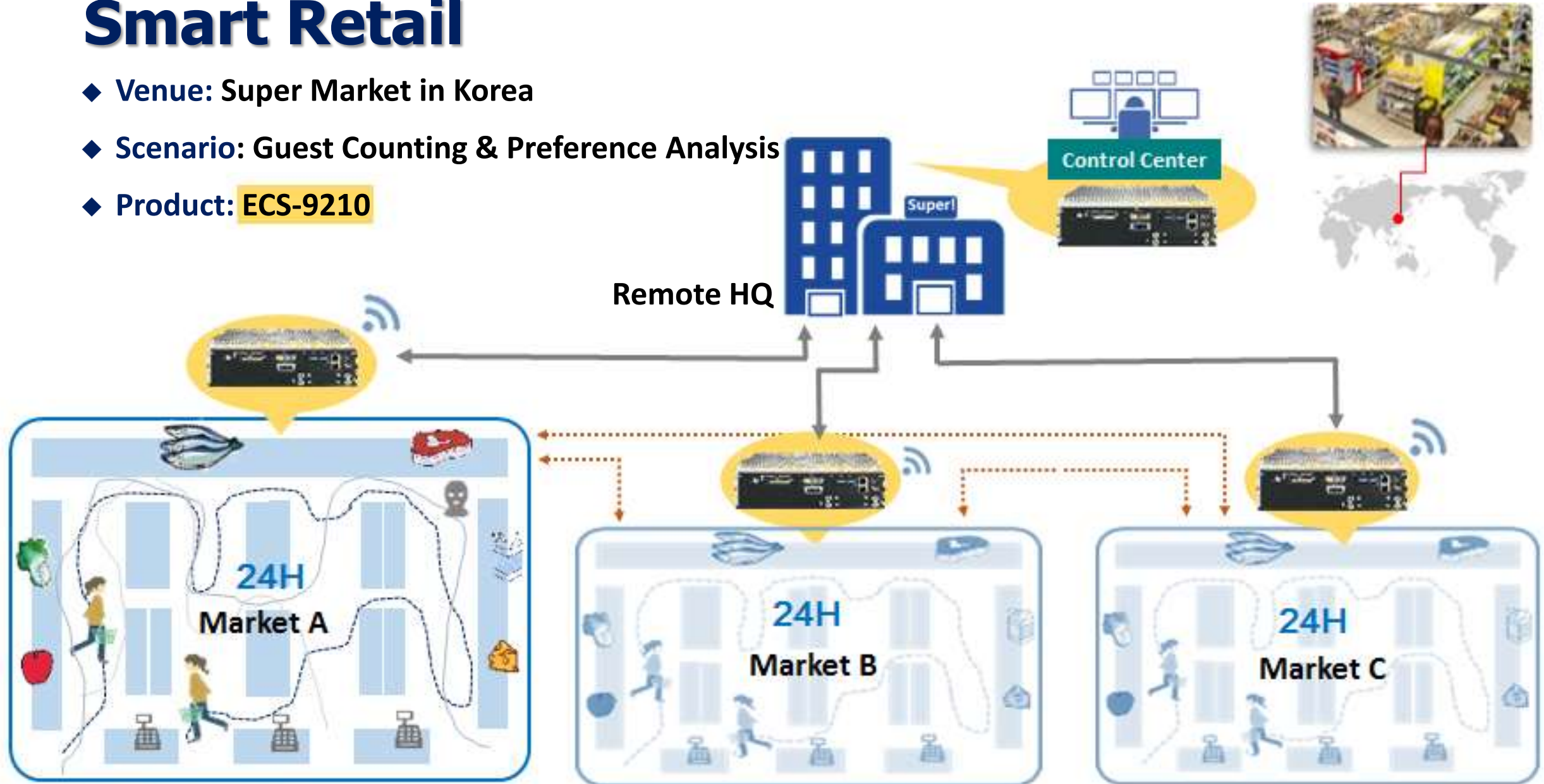
Automated Guided Vehicles (AGV)

◆ **Venue:** Warehouse in North America

◆ **Scenario:** Self-driving/Automated Guide Vehicles (AGV)

◆ **Product:** ECS-9000-PoE

1,500KG

Payload

Loading : Boxes/Carts/Shelves

Intelligent Control - Robot Controller

Key Features
- ✓ High Computing Performance for real-time Robot Control
- ✓ Multiple I/O Functions, 2.5" SSD Tray
- ✓ Up to 9 Independent GbE LANs for EtherCAT, TPM supported
- ✓ IEEE 802.3at PoE+ GigE LAN
- ✓ Isolated DIO for alert, sensor, motion control and circus protection
- ✓ Fanless, -25°C to 70°C
- ✓ 6V to 36V DC-in, 80V Surge Protection
- ✓ Compact Size, all-in-one design

PoE+ Real-time Machine Vision

Real-time Motion Control

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License Plate Recognition

Video Capture Card Connect to — Camera

DVI/LVDS Output — Car Information

COM Port Output — Gate Way Control

◆ Application Focus

Real-time image capture speed and accuracy integrates with gate controllers and alarms

◆ ECS-7000 series provide

- ✓ Quad Core i7/i5/i3 CPU
- ✓ Up to 16GB Memory
- ✓ 2 2.5"SATA 6Gb/s HDD/SSD
- ✓ Rugged and Reliable
- ✓ Rich I/O Interface
- ✓ Compact Size
- ✓ Wide-range Operating Temperature

◆ Result

Speedy response and accurateness video with sufficient storage space

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AOI, Automated Optical Inspection
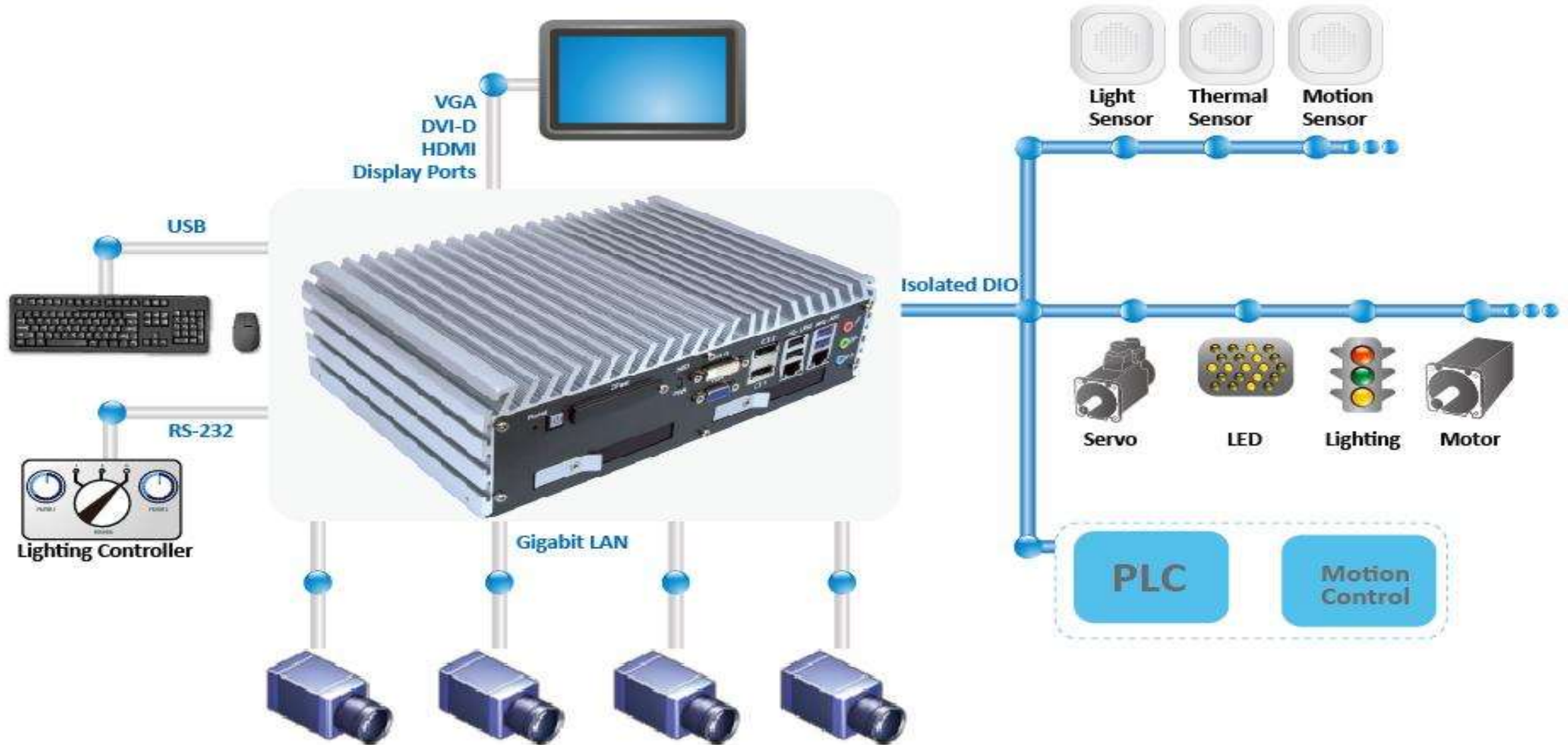
In-Vehicle Surveillance & Security

DVI/VGA

Monitor

Cameras

◆ **Application Focus**
- ➢ Image resolution, storage capacities for long-time recording
- ➢ Data security

◆ **Solution : ECS-7000-2R**
- ✓ Quad-core Intel Core i7/i5/i3
- ✓ Up to 16GB Memory
- ✓ 2 2.5" SATA 6Gbps removable HDD/SSD
- ✓ Rugged and Reliable
- ✓ Rich I/O Interface
- ✓ Compact Size
- ✓ Multi Displays

Vecow
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Everyone deserves a better system

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