VHub ESG Solutions

Enabling Digital Factory via One-Stop AIoT Services

Dozens of countries have put forward “2050 Net-Zero Emissions” declarations and actions. To achieve net zero, companies can adopt demonstrated emission reduction measures to target emissions across their value chain and invest in innovative zero-carbon technologies. VHub ESG Solutions for Smart Factory help accelerate the transformation of manufacturing industries and bring competitiveness and environmental sustainability to meet the “Net-Zero” policy.

- **Intelligent Sensing**: Combining intelligent sensors and the Vecow EMS solution provides real-time energy status, analyzes data, alerts, and predicts maintenance for the OT devices.
- **Video Analysis**: AI-powered smart cameras with OpenVINO and integrating Vecow Fever Scan Solutions, a contactless technology, factories can ensure workplace safety, hygiene and greater efficiency.
- **Smart Security**: To minimize the energy demands of Edge devices, Vecow Edge Gateway supports IOTech, a software-based solution, and provides AI performance, making the digital factory possible.
- **Energy Management**: Workforce Management
- **Carbon Emission Calculation**: Production Line Monitoring

www.vecow.com
VHub ESG Solutions provide various AI tools to predict equipment maintenance schedule and optimize production capacity through facility parameters like water, oil and power at the edge. It helps the manufacturing industry improve the process, product quality and reduce costs.

Training Server
- 11th Gen Intel® Xeon®/Core™ i7/i5
- 1500W power budget supports max dual 750W 3-slot graphics card

RCX-2000 PEG
- 11th Gen Intel® Xeon®/Core™ i7/i5/i3
- Max DC 16V to 160V Wide Range Power
- TSN, TPM 2.0 supported

SPC-7000
- Small form factor, max 32 TOPS AI performance
- 5 GigE LAN with 4 PoE+, 2 CAN Bus support

Flexible Data-rate

Inference Platform
- 8th Gen Intel® Core™ i7/i3
- Optional built-in Hailo-8 AI Accelerator, up to 26 TOPS

ABP-3000 AI
- 8th Gen Intel® Core™ i7/i3
- Optional built-in Hailo-8 AI Accelerator, up to 26 TOPS

EAC-3000
- Small form factor, max 32 TOPS AI performance
- 5 GigE LAN with 4 PoE+, 2 CAN Bus support

Resource Optimization

AI Data Analysis

Reliable Ecosystem

VHub ESG Solutions support many industrial grade protocols such as Modbus, OPCUA, and Onvif collecting data and integrating communications at the edge. It provides a variety of functions of applications in an easier way.

Protocol & SDKs

Vision AI Development
- RTSP
- ONVIF
- Docker
- TCP/IP
- OpenVINO

Machine & Sensor DAQ
- Modbus
- Bluetooth

Partners

OT Devices

Edge Gateway
- NXP i.MX 8M Plus Arm Cortex-A53 Platform
- Embedded Neural Processing Unit, max 2.3 TOPS AI performance

EIC-2000
- NXP i.MX6ULL Arm Cortex-A7 Platform
- 512MB SDRAM, 512MB Flash

Vecow

www.vecow.com
info@vecow.com

* The rights of all brand names, product names and trademarks belong to their respective owners.
Copyright © 2022 Vecow Co., Ltd. All rights reserved.