

# ESP

# 1000

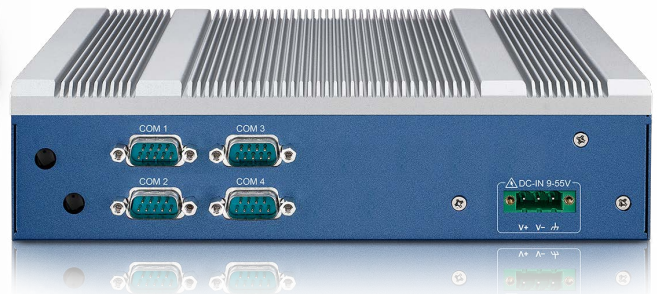


# 2.5GigE

## Ultra-compact Fanless LAN Switch System



Smart Factory



- Quad-Core Intel Atom® x6425RE processor (Elkhart Lake) delivers up to 55% faster compute and up to 2.7X better 3D graphics performance than the former generation solution
- DDR4 3200MHz memory, up to 32GB
- 1 Independent 2.5GigE LAN supports Intel® Time sensitive Networking (TSN) and 1 independent GigE LAN supports 10/100/1000 Mbps data transfer
- Industrial 8-port Layer 2 Unmanaged Ethernet Switch with 6 10/100/1000 Base-T(X) ports and 2 100/1000 Base SFP ports
- Optional VHub One-Stop AIoT Solution Service supports OpenVINO based AI accelerator and advanced Edge AI applications

Machine Vision



Public Security

intel partner  
Gold IoT Solutions



# VHub

# Vecow

# Specifications

## System

Processor	Intel Atom® x6425RE Processor (Elkhart Lake)
Chipset	Intel® SoC
BIOS	AMI
SIO	IT8786E
Memory	1 DDR4 3200MHz SO-DIMM, up to 32GB
OS	Windows 10, Linux

## I/O Interface

Serial	4 COM RS-232/422/485(ESD 8kV)
USB	- 2 USB 3.1 - 2 USB 2.0
LED	HDD, WLAN, Power, WWAN, L/A, F/O

## Expansion

M.2	1 M.2 Key E Socket (2230)
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## Graphics

Graphics Processor	Intel® UHD Graphics for 10th Gen Intel® Processors
Interface	Dual Display : - DVI-I : Up to 3840 x 2160 @60Hz - DisplayPort : Up to 4096 x 2160 @60Hz

## Storage

M.2	1 M.2 Key M Socket (2280, PCIe x2/SATA)
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## Audio

Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	Line-out

## Ethernet

LAN 1	Intel® Ethernet Controller I210 supports GigE LAN
LAN 2	Intel® Ethernet Controller I225 supports 2.5GigE LAN

## Switch Ethernet

sLAN 1 to sLAN 6	10/100/1000 Base LAN port
sLAN 9 & sLAN 10	100/1000 Base SFP port

## Power

Power Input	DC 9V to 55V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground

## Others

TPM	Infineon SLB9670 supports TPM 2.0, SPI Interface
Watchdog Timer	Reset : 1 to 255 sec./min. per step
Smart Management	Wake on LAN
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

## 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	5% to 95% Humidity, Non-condensing
Relative Humidity	95% @70°C
Shock	- IEC 60068-2-27 - SSD : 50G @wallmount, Half-sine, 11ms
Vibration	- IEC 60068-2-64 - SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC, EN50155, EN50121-3-2

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## Mechanical

Dimensions	225.0mm x 150.4mm x 58.0mm (8.86" x 5.92" x 2.28")
Weight	1.9 kg (4.19 lb)
Mounting	- Wallmount by mounting bracket - DIN Rail Mount (Optional)

## Ordering Information

Model	LAN		Ethernet Switch		USB	COM
	2.5G	GigE	RJ45	SFP		
ESP-1000	1	1	6	2	4	4

## Optional Software

VHub AI Developer	AI Development Kit
VHub ROS	AMR Development Kit
VHub EtherCAT	I/O Control Platform

## Accessories

DDR4 32G	Certified DDR4 32GB 3200MHz RAM
DDR4 16G	Certified DDR4 16GB 3200MHz RAM
DDR4 8G	Certified DDR4 8GB 3200MHz RAM
DDR4 4G	Certified DDR4 4GB 3200MHz RAM
PWA-60WP3-WT	60W, 24V/2.5A 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
M.2 Storage Module	M.2 Key M PCIe Storage Module
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

## Dimensions & Drawing

Unit : mm (inch)

