VTK Energy Saving

Vecow Turn-key Solution of Energy Saving with ECS-4700-PoER

Features

- Low-power 13th Gen Intel® Core™ i5 U-series Processor (Raptor Lake-P), 15W TDP CPU
- 2 2.5GigE LAN, 4 PoE+ LAN, Isolated PoE Protection
- 2 Front-access 2.5" SSD/HDD Tray
- Compact Design, fanless -25°C to 75°C Operating Temperature
- Real-time monitoring of today's energy usage and carbon footprint
- Detailed insights into the real-time power consumption of the top five devices
- Immediate alerts and notifications for abnormal events detected in the system
- IPCam listing feature enabling video viewing from different configured areas

ECS-4700-PoER Specifications

System

Platform	Onboard 10-core 13th Gen Intel® Core™ i7-1365UE Processor (Raptor Lake-P)
Chipset	Intel® SoC
Graphics Processor	Intel® Iris® Xᵉ Graphics
Memory	DDR5 SO-DIMM 5600MHz 16GB
OS	Windows 11

I/O Interface

Serial	4 COM RS-232/422/485
USB	▪ 2 USB 3.2 Gen2 Type-A ▪ 1 USB 3.2 Gen 2x2 Type-C, support DP 1.4a ▪ 2 USB 2.0 Type-A
Ethernet	▪ LAN 1: Intel® I226 2.5GigE LAN supports TSN ▪ LAN 2: Intel® I226 2.5GigE LAN supports TSN
PoE	▪ LAN 3: GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I350 ▪ LAN 4: GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I350 ▪ LAN 5: GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I350 ▪ LAN 6: GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I350
Audio	1 Mic-in, 1 Line-out
Display	▪ 2 DisplayPort 1.4a : Up to 3840 x 2160 @60Hz ▪ 1 DisplayPort 1.4a : Up to 3840 x 2160 @60Hz by USB Type-C ▪ 1 HDMI2.0 : Up to 3840 x 2160 @60Hz
SIM Card	1 External Nano SIM Card Socket

Power

Power Input 1	DC 9V to 50V, Redundant Power Input
Power Input 2	DC 9V to 50V, Redundant Power Input
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Ignition Control	16 Mode Ignition Control
Remote Switch	3-pin Terminal Block

Storage

M.2	1 M.2 Key M Socket (2280, PCIe x4)
SATA	2 SATA III (6Gbps) support software RAID 0, 1 ▪ 2 Front-access 2.5" SSD/HDD Tray

Expansion

M.2	▪ 1 M.2 Key B Socket (2280/3052, PCIe x2/USB 3 Default) ▪ 1 M.2 Key E Socket (2230, PCIe x1)

Mechanical

Dimensions	256.8mm x 141.0mm x 48.1mm (10.11" x 5.55" x 1.89")
Mounting	▪ Wallmount by mounting bracket ▪ VESA Mount (Optional) ▪ DIN Rail Mount (Optional)

Environment

Operating Temperature	-25°C to 75°C (-13°F to 167°F) with air flow
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Sensor List

Software

Gateway System	Power-efficient Thread Border Router with Arm Cortex-A7 processor, supporting Bluetooth LE, LTE, WiFi, Ethernet, and RS485 interface
Control Switch	Remote control for home and office appliances, supports 2 channels up to 16A total, integrates Thread technology for stable communication
Smart Meter	One-phase, 3-channel relay up to 16A per channel (48A total), accurate current measurement below 3%, LCD and app control, supports Thread for extended range
IP Camera	Up to 5MP resolution, smart compression, triple video streams, IR up to 30m, True WDR, IP67/IK08-rated, DC12V/PoE, ONVIF compliant
Temperature Sensor	-20°C to 80°C supported, ensuring stable environmental conditions
Tower Beacon	Combines Thread wireless connectivity, easy installation, micro USB power input, multi-light detection, real-time alerts, and PLC integration

SW License

Software

OS	DEXATEK Dashboard

Order Information

VTK-ESV-1000	ECS-4700-PoER-1365UE, Intel® Core™ i7-1365UE, 1 DDR5 16G, 1 2.5" SSD 512G, 1 PWS-120W, Dexatek SW Licence, Sensor Kit

Optional Accessories

Power Cord	By Customer's Request