

RES

5000



IP67 Rugged Embedded System

Intel® Core™ i7 SoC, Fanless -40°C to 70°C Operation



^ Irrigation System



- Onboard Intel® Core™ i7-1185G7E processor delivers high power CPU productivity, up to 15W TDP
- High-reliable IP67 protection
- Rugged connections : 2 X-coded M12 GigE LAN, 2 A-coded M12 COM RS-232/422/485, 2 USB3
- Intel® vPro, TSN, TCC, and TPM 2.0 supported
- DC 9V to 55V wide range power input, Ignition Power Control
- Fanless -40°C to 70°C Operating Temperature
- Optional supports waterproof antenna for 5G/WiFi/4G/LTE
- Optional VHub One-Stop AIoT Solution Service supports OpenVINO based AI accelerator and advanced Edge AI applications

v Smart Factory



^ Outdoor Automation

intel partner
Gold IoT Solutions

OpenVINO™



Vecow

Specifications

System

Processor	Onboard Intel® Core™ i7-1185G7E Processor (Tiger Lake UP3)
Chipset	Intel® SoC
Graphics	Intel® Iris® X ^e Graphics
BIOS	AMI
SIO	IT8786E
Memory	1 DDR4 3200MHz SO-DIMM, up to 32GB
OS	Windows 11, Windows 10, Linux

I/O Interface

Serial	2 COM RS-232/422/485, A-coded M12 Connector
USB	2 USB 3.1 Gen 2, IP67 Waterproof USB Type-A
LED	Power, HDD
Display	IP67 Waterproof DisplayPort : Up to 4096 x 2304 @60Hz

Storage

SATA	1 SATA III (6Gbps)
M.2	1 M.2 Key B Socket (2260/2242, PCIe2)
Storage Device	- 1 Internal 2.5" SSD/HDD Bracket - 1 M.2 Key B Socket

Ethernet

LAN 1	Intel® I219LM GigE LAN supports iAMT, X-coded M12 Connector
LAN 2	Intel® I226 2.5GigE LAN supports TSN, X-coded M12 Connector

Power

Power Input	DC 9V to 55V
Power/IGN Interface	A-coded M12 4-pin Connector
Ignition Control	16-mode Ignition Control
Power Switch	IP67 Waterproof Power Button

Others

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

Mechanical

Dimensions	200mm x 200mm x 80mm (7.87" x 7.87" x 3.32")
Weight	2.4kg (5.29lb)
Mounting	Wallmount by mounting bracket

Environment

Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Storage Temperature	-55°C to 85°C (-67°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock0	- 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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Order Information

Model	LAN		COM	USB 3.0	DP
	2.5G	1G			
RES-5000-1185G7E	1	1	2	2	1

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-120W1	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
M.2 Storage Module	M.2 Key B Storage Module
IP67 USB Cable	IP67 Rated USB Cable, 2M
IP67 DisplayPort Cable	IP67 Rated DisplayPort Cable, 2M
IP67 Ethernet Cable	IP67 Rated Ethernet Cable, M12 to RJ45, 2M
IP67 COM Cable	IP67 Rated COM Cable, M12 to DB9, 2M

Dimensions & Drawing

Unit : mm (inch)

