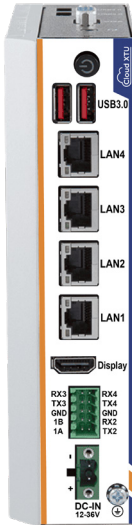


Smart RTU / Gateway / IIoT Controller / IoT Gateway



Features

- 64 bit, Quad core 2.0 GHz Processor
- 4 x GbE RJ45
- 4 x RS232/422/485
- 2 x USB3.1, 4 x USB2.0
- 128 GB Flash Storage
- 4GB onboard RAM
- Onboard 4G modem & W/L networks (Optional)
- CloudXTU Engine with Energy Industry Protocols
- Option: CloudXTU IoT Software Suit

Specifications

System

Processor	64 bit (2.0 GHz/2.6GHz) Processor
Memory	4GB RAM
Software	IEC61131-3 / Node-RED / Python TLS 1.2 + encrypted cloud communication Over the air firmware update, Web based Device Management
Communication Drivers	Master/Client drivers : Modbus (Default), Option: OPC UA Server / Client, MQTT, IEC61850, DLMS, IEC60870, SIMATIC S7, MELSEC, DNP3
Cloud Service Compatibility	MS-Azure IoT Hub, AWS IoT, PTC Thingworks, Hosted servers, Dedicated own servers
Cloud Protocols	(Optional) HTTPS, AMQP, MQTT, PTC Always ON, OPC-UA

Power

Power Input	12-36V DC, 2-pin phoenix connector
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Storage

Storage	128GB M.2 SSD pre-installed*
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I/O

Serial Ports	1 x RS485, 3 x RS232
Wireless / Connectivity	3G/4G GSM Modem with SIM Slot (Optional) WiFi 802.11 a/b/g/n (Optional)
LAN	4 x RJ45
Display Port	1 x HDMI® 1 x VGA
USB Ports	2 x USB3.1 4 x USB2.0
Expansion Slot	1 x full-size mPCIe (PCIe/ USB2.0/ mSATA signal support)

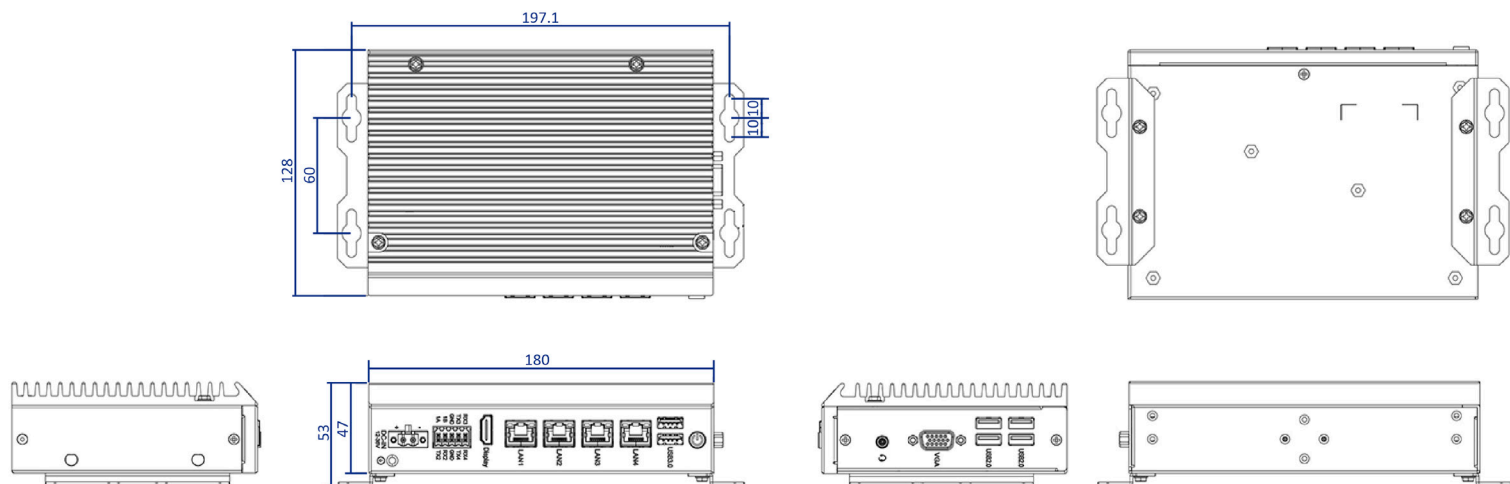
Environment

Operating Temp.	-20 ~ 60°C (-4 ~ 140°F), ambient w/ air flow
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	5 ~ 95% @ 40°C (non-condensing)
Vibration	5~500Hz, 2Grms operation
Shock	Operation: 10G@11ms Non-operation: 30G@11ms

Physical

Mounting	Desk-Mount, Wall-Mount, DIN-Rail(optional)
Chassis	Aluminum Alloy
Dimensions (W x H x D) (mm)	180 x 128 x 47
Net Weight	1.5 kg

■ Mechanical Drawings (Unit = mm)



■ Ordering Codes

Model Number	Description
SP2004V2-Basic-XX	CloudXTU Controller with Embedded Linux & Docker support
SP2004V2-STD-XX	CloudXTU Controller with Embedded OS, IEC61131 Std runtime
SP2004V2-Energy-XX	CloudXTU Controller with Embedded OS, IEC61131 Energy runtime

XX
4G : Onboard 4G Modem
WL : Onboard WiFi

SP-2004V2-19-11-2025