

SWA5 Mini-Client

Product Overview

Powered by the latest generation Intel® Celeron® N5105 at 2.9 GHz, the SWA 5 Mini-Client is an intelligent PC-based controller and IoT gateway for factory automation. With up to 16 GB of DDR4 memory, the SWA 5 Mini-Client supports operating temperatures from 0 °C to 50 °C at a typical DC input voltage of 24 V. Thanks to the RS232 interface and integrated I/Os, it enables reliable connection to devices in factory semi-automated applications, IoT applications (with optional GbE LAN, WLAN, Bluetooth module), and communication applications. The SWA 5 Mini-Client is the first choice for intelligent M2M systems as a controller and gateway for factory semi-automated applications.

Specifications

CPU

- Onboard Intel® Celeron® N5105 on-board SoC (up to 2.90GHz, Quad-core, 4M Cache, TDP=10W)

Main Memory

- 1x DDR4 SO-DIM (System max.16GB) 8GB installed

Display Option

- 1x HDMI + 1x DisplayPort

I/O Interface-Front

- Power switch
- 1x Power LED
- 3x Intel® I225V 2.5GbE controller (Colay with I225-LM)
- 1 x DP 1.4 (up to 4096 x 2160 @60Hz)
- 1 x HDMI 1.4 (up to 4096 x 2160@30Hz)
- 2x USB 3.2 Gen2
- 4x USB 2.0
- 1x 3pin Pushbutton
- 1x 5pin RS232 for PTL with fuse 5A
- 1x 4pin DC input, support 24VDC
- 1x 10 Input dry contacts
- 1x 10 Output dry contacts

I/O Interface-left

- 2x Antenna holes for Optional Wi-Fi 6 / Bluetooth 5.2

Storage Device

- 1x M.2 B Key 2242(PCIe 256gb installed)

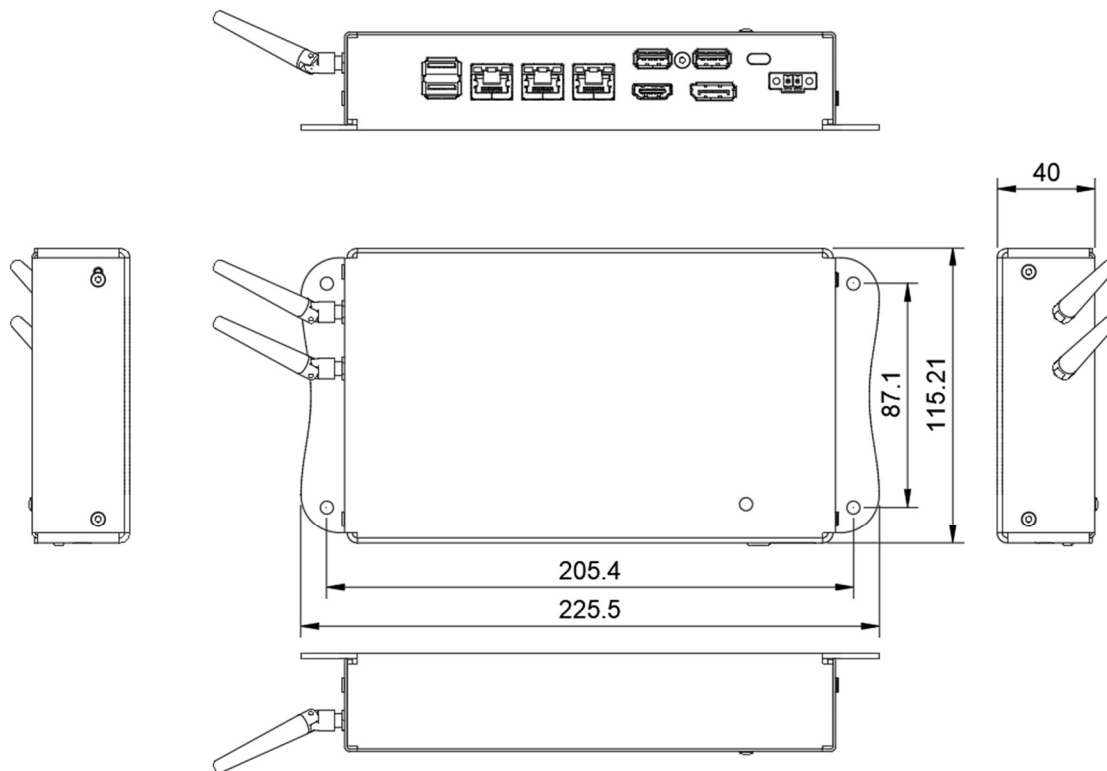
Power Requirement

- 1Power input: 24VDC

Support OS

- Windows 10 IoT
- Windows 11 IoT
- Linux

Dimension Drawing



Dimension

- 226mm (L) x 116mm (W) x 40mm (H) without Wi-Fi antennas

Weight

- GW: 0,7Kg

Construction

- Aluminum bottom and metal lid chassis with fan less design

Environment

- Operating temperature: 0°C to 50°C
- Storage temperature: -30°C to 70°C
- Relative Humidity: 5% to 95%, non-condensing

Certification

- System: CE
- Mainboard: CE/FCC Compliant
- Emission: DIN EN 61000-6-4: 2020, DIN EN 55032: 2022, ETSI EN 301 489-1 V2.2.3, ETSI EN 301 489-3 V2.1.1
- Immunity: DIN EN 61000-6-2: 2019, DIN EN 55035: 2018, ETSI EN 301 489-1 V2.2.3, ETSI EN 301 489-3 V2.1.1

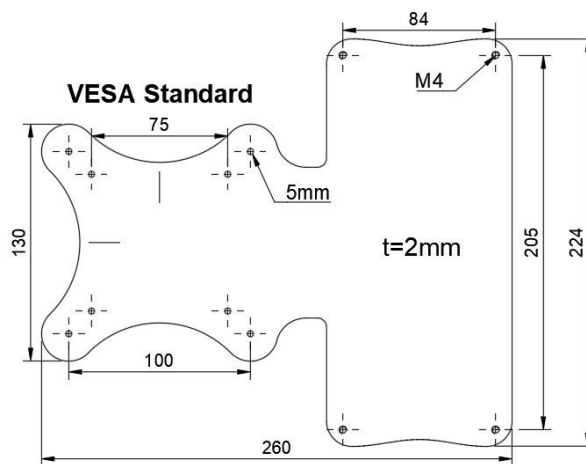
Safety Precautions

1. Read these safety instructions carefully.
2. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
3. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
4. Keep this equipment away from humidity.
5. Put this equipment on a stable surface during installation. Dropping it or letting it fall may cause damage.
6. The openings on the enclosure are for air convection to protect the equipment from overheating. **DO NOT COVER THE OPENINGS.**
7. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
8. Place the power cord in a way so that people will not step on it. Do not place anything on top of the power cord. Use a power cord that has been approved for use with the product and that it matches the voltage and current marked on the product's electrical range label. The voltage and current rating of the cord must be greater than the voltage and current rating marked on the product.
9. All cautions and warnings on the equipment should be noted.
10. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
11. Never pour any liquid into an opening. This may cause fire or electrical shock.
12. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
13. If one of the following situations arises, get the equipment checked by service personnel:
 - a. The power cord or plug is damaged.
 - b. Liquid has penetrated into the equipment.
 - c. The equipment has been exposed to moisture.
 - d. The equipment has been dropped and damaged.
 - e. The equipment has obvious signs of breakage.
14. Do not place heavy objects on the equipment.
15. **CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.**

SWA 5 Vesa Mount Mini-Client

Specifications

Dimension Drawing



Dimension

- 260mm (L) x 224m (W) x 2mm (H)

Weight

- GW: 0,2Kg

Construction

- Aluminium

SWA 5 Power supply Mini-Client

Specifications

Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- IP67/IP65 rating for indoor or outdoor installations
- Typical lifetime > 62000 hours
- Hiccup mode, recovers automatically after fault condition is removed

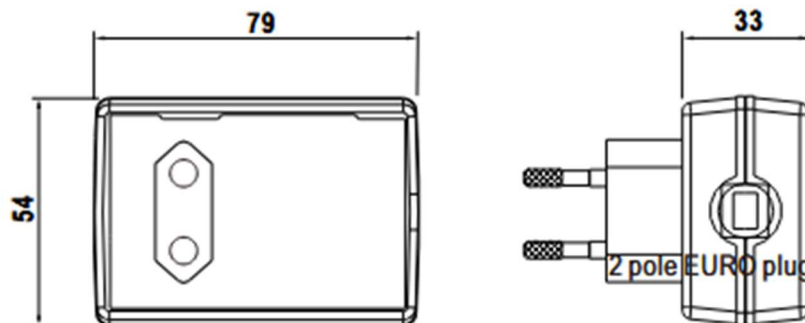
Output

- 12V
- Rated Current 3A
- Connector: MC 1,5/ 2-STF-3,81
- Pin 1 + and Pin 2 –
- Cable: UL2468 16AWG 950mm +-50mm

Input

- Voltage Range: 85 to 264VAC
- Frequency Range: 47 to 63Hz
- AC Current 0,8A/115VAC, 0,45A/230VAC
- Efficiency (Typ.) 87,5%
- Connector (TYP): 2 Pole Euro

Dimension Drawing



Dimension

- 79mm (L) x 54mm (W) x 33mm (H) without Cable and Connectors

Weight

- GW: 209g

Environment

- Operating Temperature: -30°C to 70°C
- Storage temperature: -40°C to 85°C
- Relative Humidity: 10% to 95%, non-condensing

Certification

- System: CE
- EN62368-1, IC62368-1, TPTC0004

Spare Part List

Device	Description	Article Number
SWA5 mini client	Power Board	5555
	Client housing	5556
	Power supply	5564
	Vesa Mount	5556
	Mainboard	SWA5 Mainboard
	Hard drive	SWA5 Hard drive
	Memory	SWA5 Client Memory
	Wifi card incl. antennas	SWA 5 Wifi