

Space 1

Item number: SPA01-1R01

The Wifi-capable control module Space with integrated antenna enables wireless networking of individual I/O field components. The compact design, classified with protection class IP54, enables use in an industrial environment and guarantees easy commissioning.

Description

Using a WLAN connection, the Space I/O module can be easily connected to your conveyor system, your AGV fleet and all I/O components in the field. You profit from an I/O module that is easy to integrate without the need for a complex overall system. In addition, you can do without complicated cabling when networking several distributed systems and still implement cross-system control.

Description of functions

Flexible application options

Can be used for connecting I/O field communication components such as transfer points, sliding gates, or warning lights, for example with conveyor systems, AGV fleets or Warehouse management systems.

Easy installation in industrial use

Uncomplicated installation in the smallest spaces, thanks to compact design and easy assembly clip. The case has protection class IP54 and ensures the industrial use.

Web-based HTML5 configuration

The simple configuration via integrated, platform-independent HTML5 web application enables shortest commissioning times.



High compatibility

The support of common standard interfaces (WLAN, Ethernet) enables easy connection and high compatibility. The FlexNet interface guarantees seamless integration with the flexbox.

Integrated status display

Practical status LEDs on the case surface shows the connection status of Wifi, module, power and fleet. The status lights of the I/O ports are also configurable.

General data

Item number	SPA01-1R01
Dimensions [mm]	131x24x70 (with socket); 117x24x70 (without socket)
Weight [g]	140
Case	Yes
Type of installation	Retaining clip at the side profile or screw connection
Degree of protection	IP54
CE-labelling	Yes
Temperature in operation (storage)	+0°C bis +45°C (-20°C bis +60°C)
Processor	Cortex-A72, 4x 1,5 GHz
Operating system	Linux
Protocols	HTTP; TCP/IP; IPv4; IPv6; REST ful- API; FlexNet

Ethernet

Speed	10/100 Mbit/s full duplex
Standard	IEEE 802.11n
Wi-Fi	2,4/ 5 GHz

Connections

Power supply (PWR)	1x plug M8 4-pole A-coded *
I/O-Ports (S1-S3)	1x socket M8 4-pole A-coded (2x I/O) ** 1x socket M8 4-pole A-coded (pot.free 2x O) *** 1x socket M8 8-pole, (6x I/O) **
Ethernet (E1)	1x socket M8 4-pole D-coded

Power supply

Voltage	24 V DC
Tolerance input voltage	+/- 10%
Power consumption (excl. peripherals)	Max. 1A

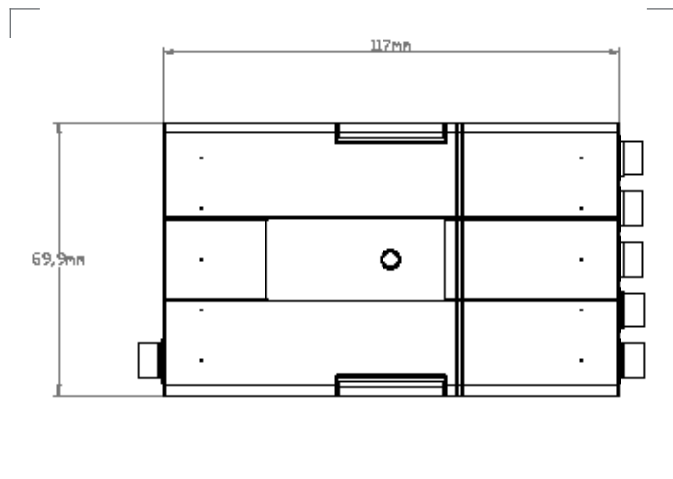
* The power supply have to be protected externally with a maximum of 4A.

** Each output can be loaded with up to 0,5 A, at the same time all digital outputs allowed to be loaded with up to 3A.

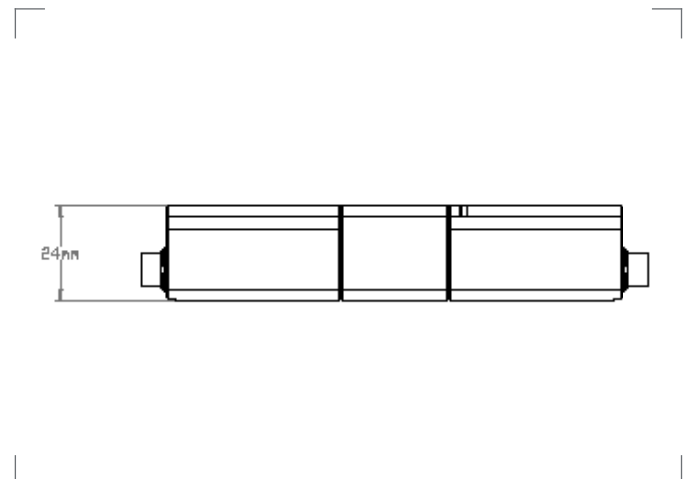
*** Each relay output allowed to be loaded with a maximum of 4A. The switchable voltage is limited to 36V DC.

Space 1

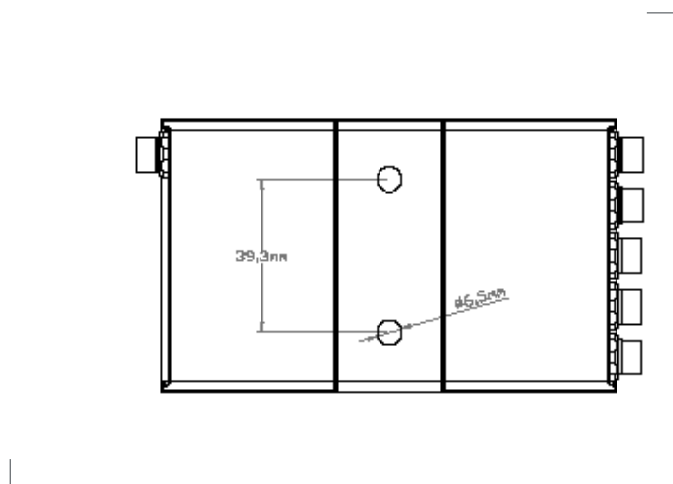
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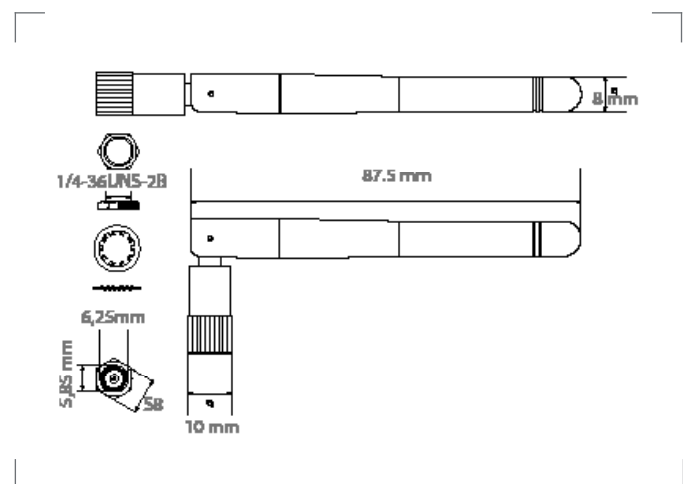
Draufsicht



Seitenansicht

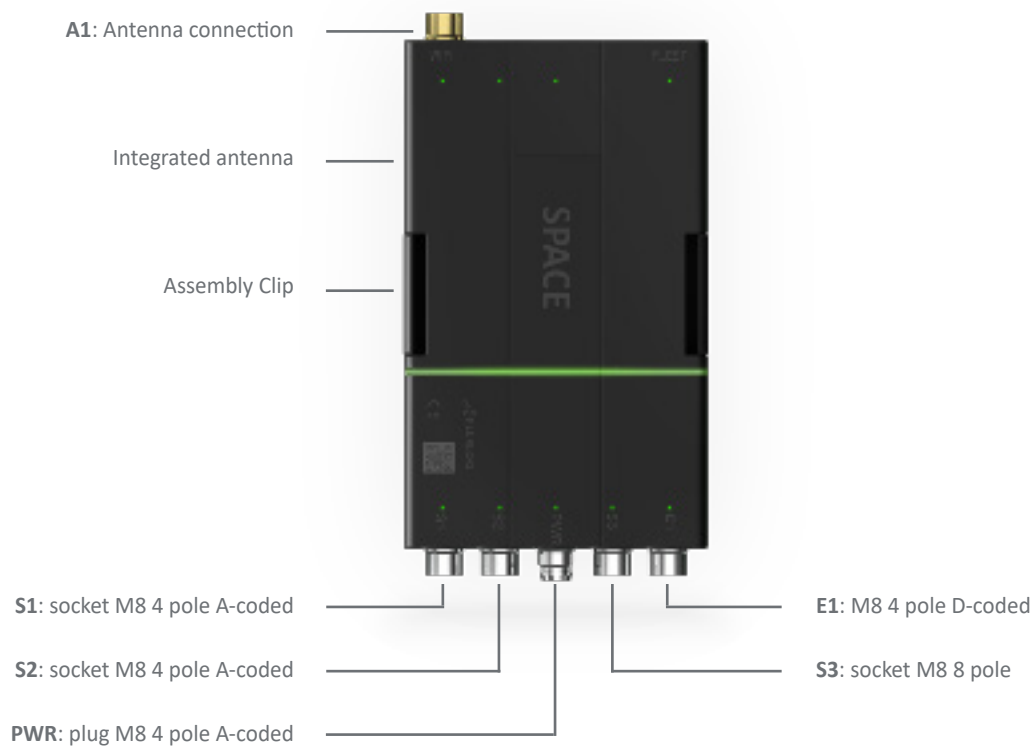


Untersicht

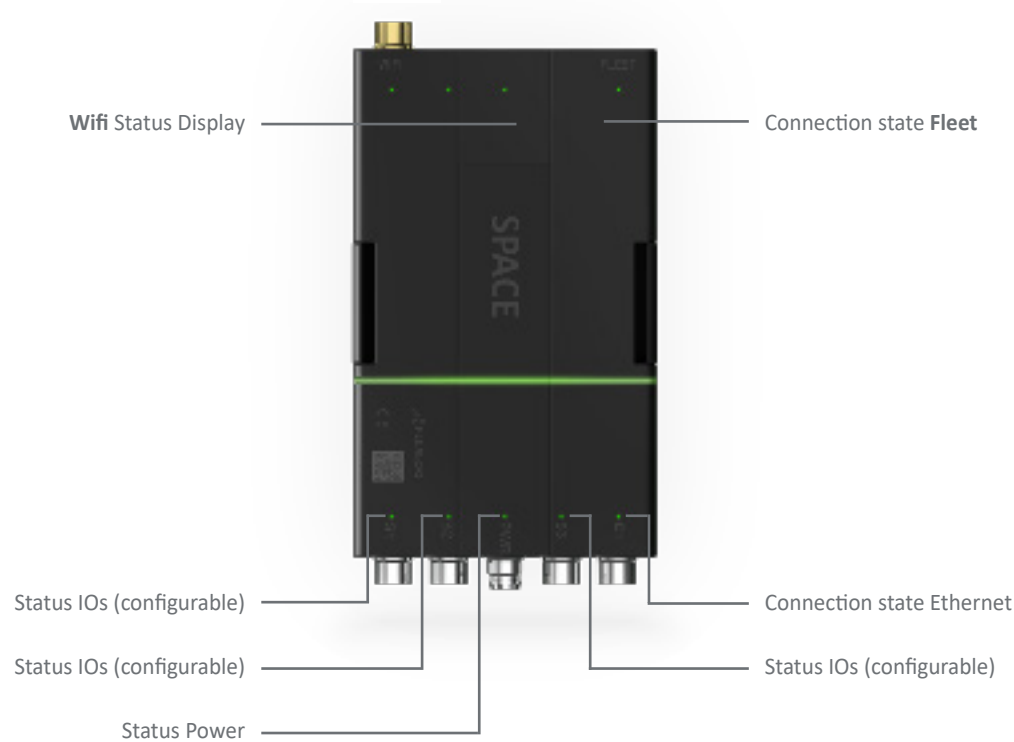


Antenne

Connections / Communication

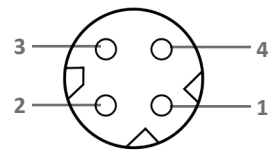


LED's



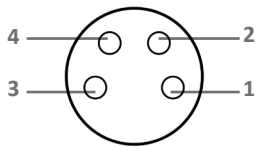
Pin assignment

E1: Ethernet (female):



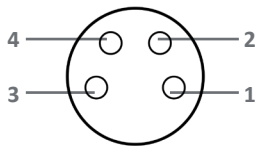
Pin / Colour	Signal
1 / Yellow	TX data +
2 / White	RX data +
3 / Orange	TX data -
4 / Blue	RX data -

S1: 4 pole (female):



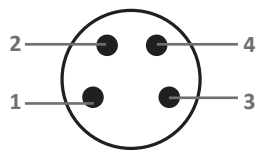
Pin / Colour	Signal
1 / Brown	24 V
2 / White	In-/Output 2
3 / Blue	GND
4 / Black	In-/Output 1

S2: 4 pole (female):



Pin / Colour	Signal
1 / Brown	Relay 2 COM
2 / White	Relay 2 NO
3 / Blue	Relay 1 COM
4 / Black	Relay 1 NO

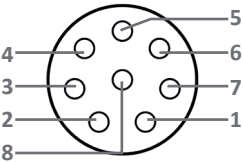
PWR: 24V infeed (male):



Pin / Colour	Signal
1 / Brown	V-Logic (24 V)
2 / White	NC
3 / Blue	GND-Logic
4 / Black	NC

Pin assignment

S3: I/O-Port (8-pole, female):



Pin / Colour	Signal
1 / White	In-/Output
2 / Brown	24 V
3 / Green	In-/Output
4 / Yellow	In-/Output
5 / Grey	In-/Output
6 / Pink	In-/Output
7 / Blue	GND
8 / Red	In-/Output