

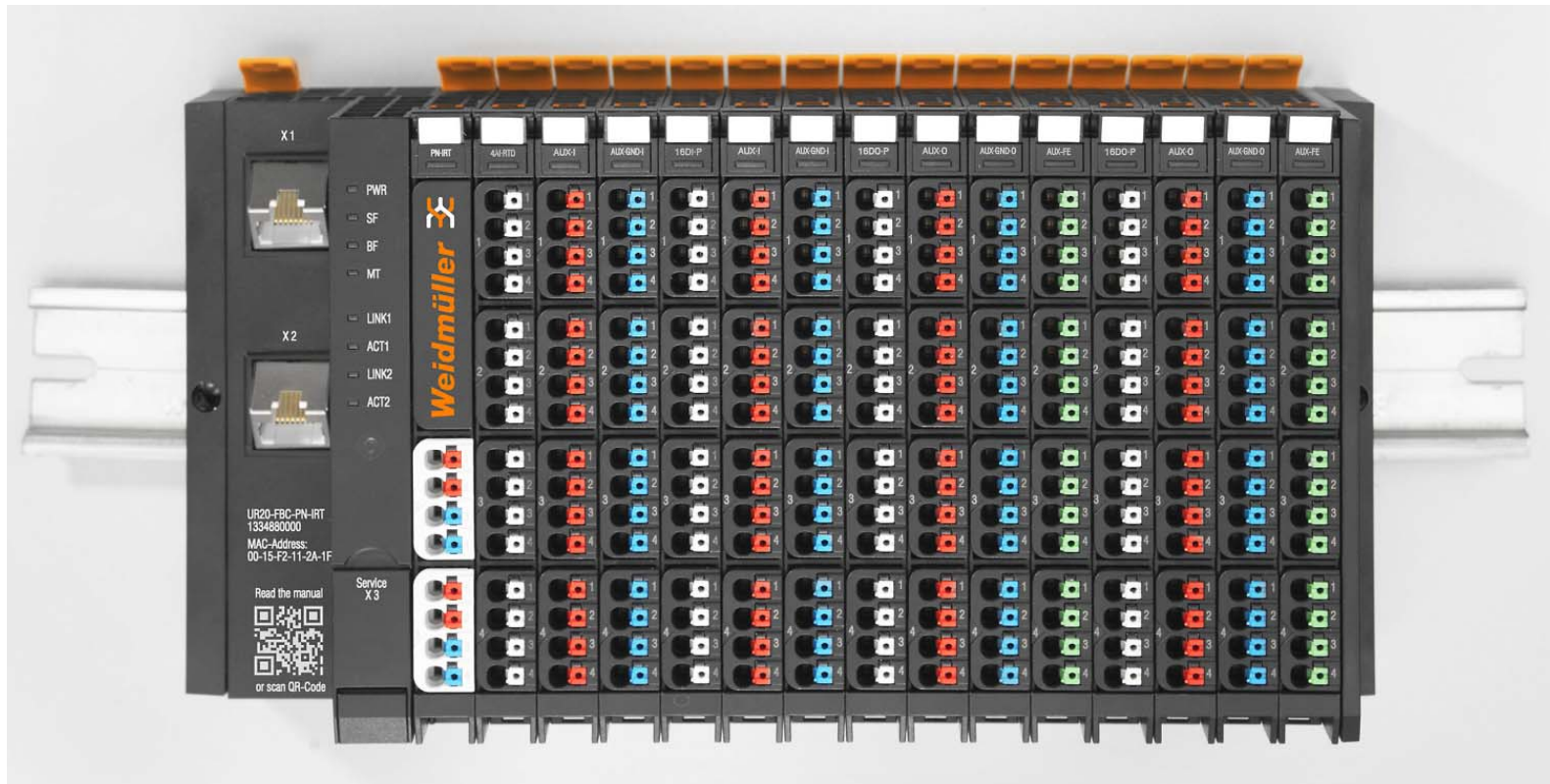


Weidmüller 

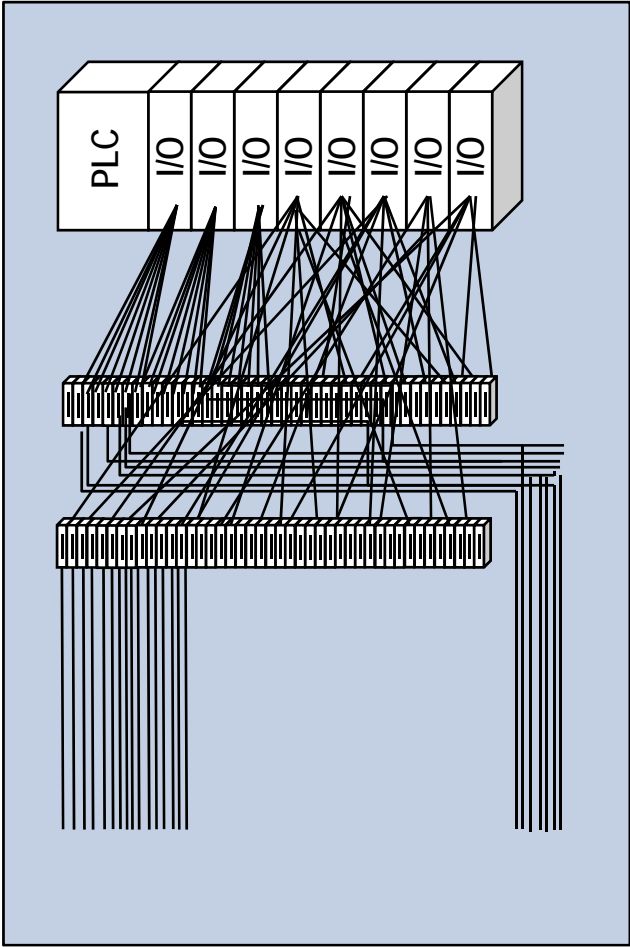
u-remote - IP20 Remote I/O

More Performance. Simplified.

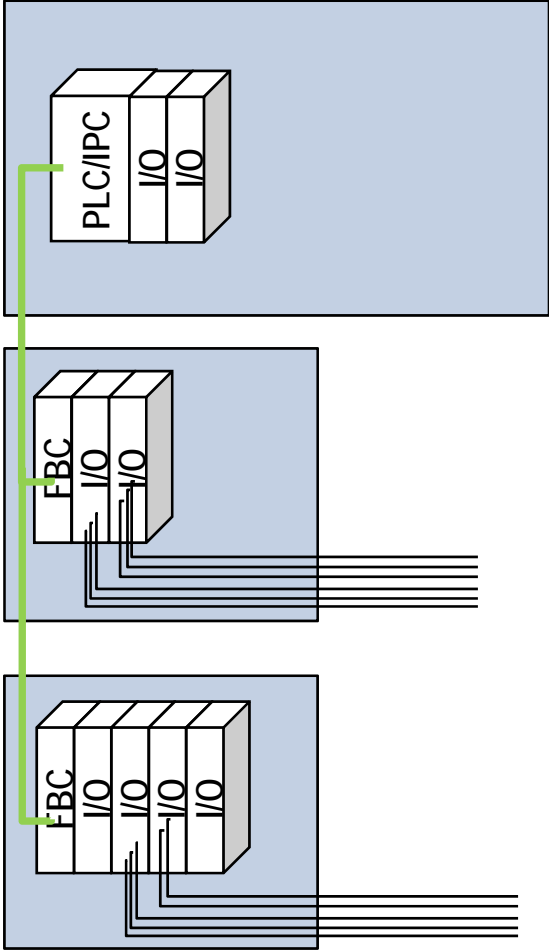
1. Why Remote IO in the system ?



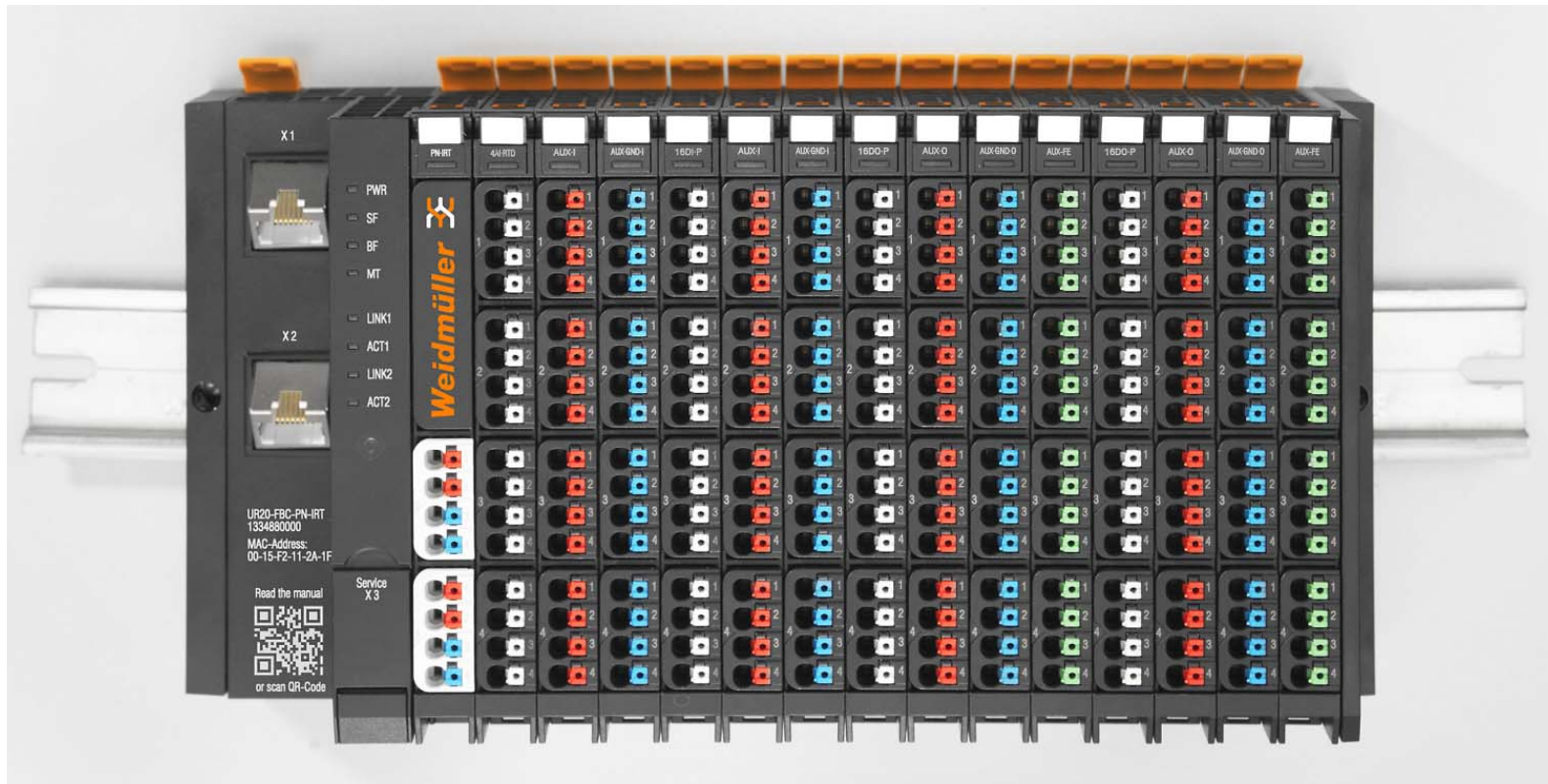
1. Phase: Central



2. Phase: Decentralize



2. Who could be your customer ?



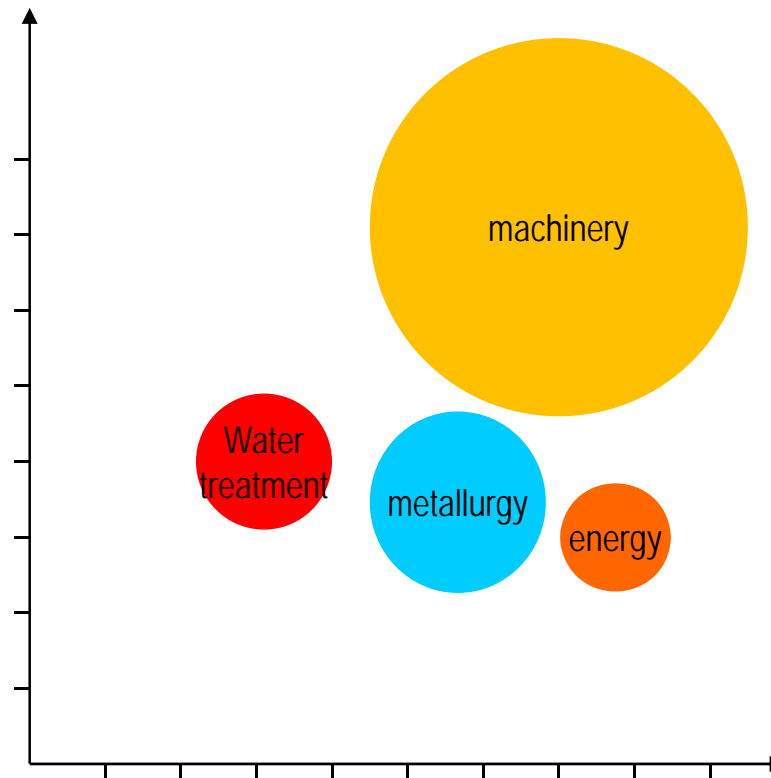
Controller / Master is:

- PLC
- PC based
- IPC
- Embedded Controller

3. Who is the competitor ?



4. Where is the target market ?



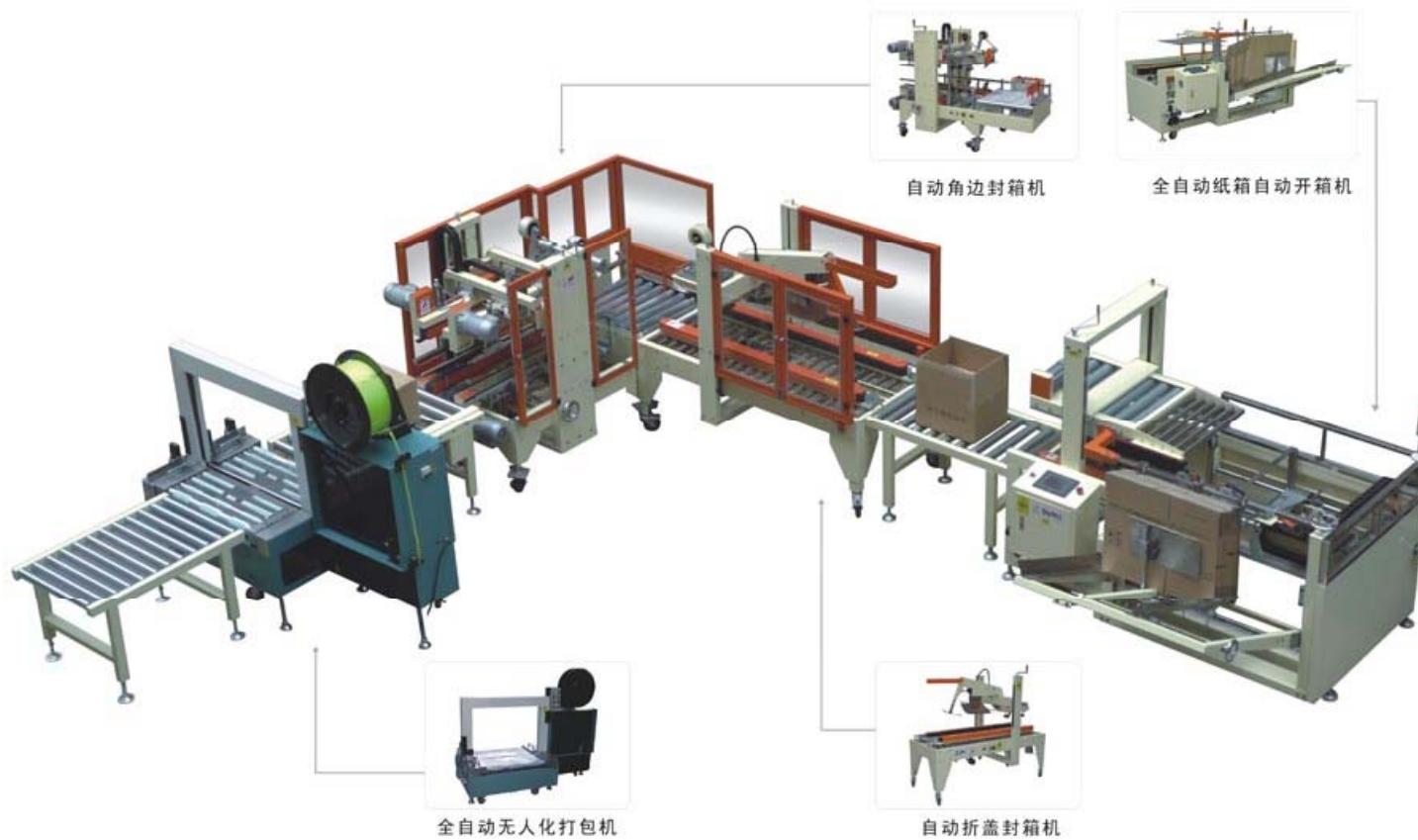
Target Segment 1: Food & Beverage



Target Segment 2: Conveying Systems



Target Segment 3: Packaging



Target Segment 4: Tobacco



Target Segment 5: Automotive



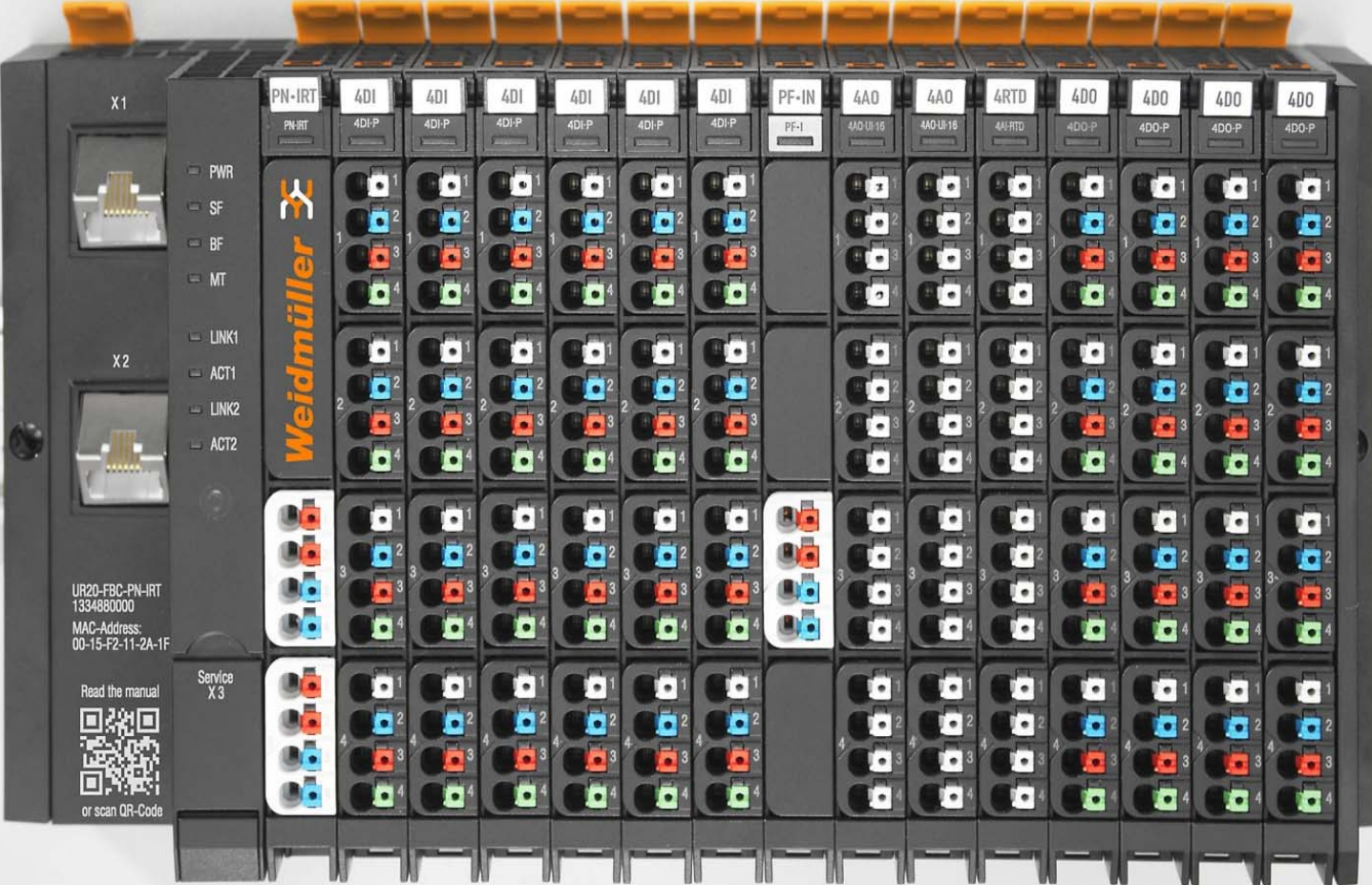
Target Segment 6: Woodworking Machinery



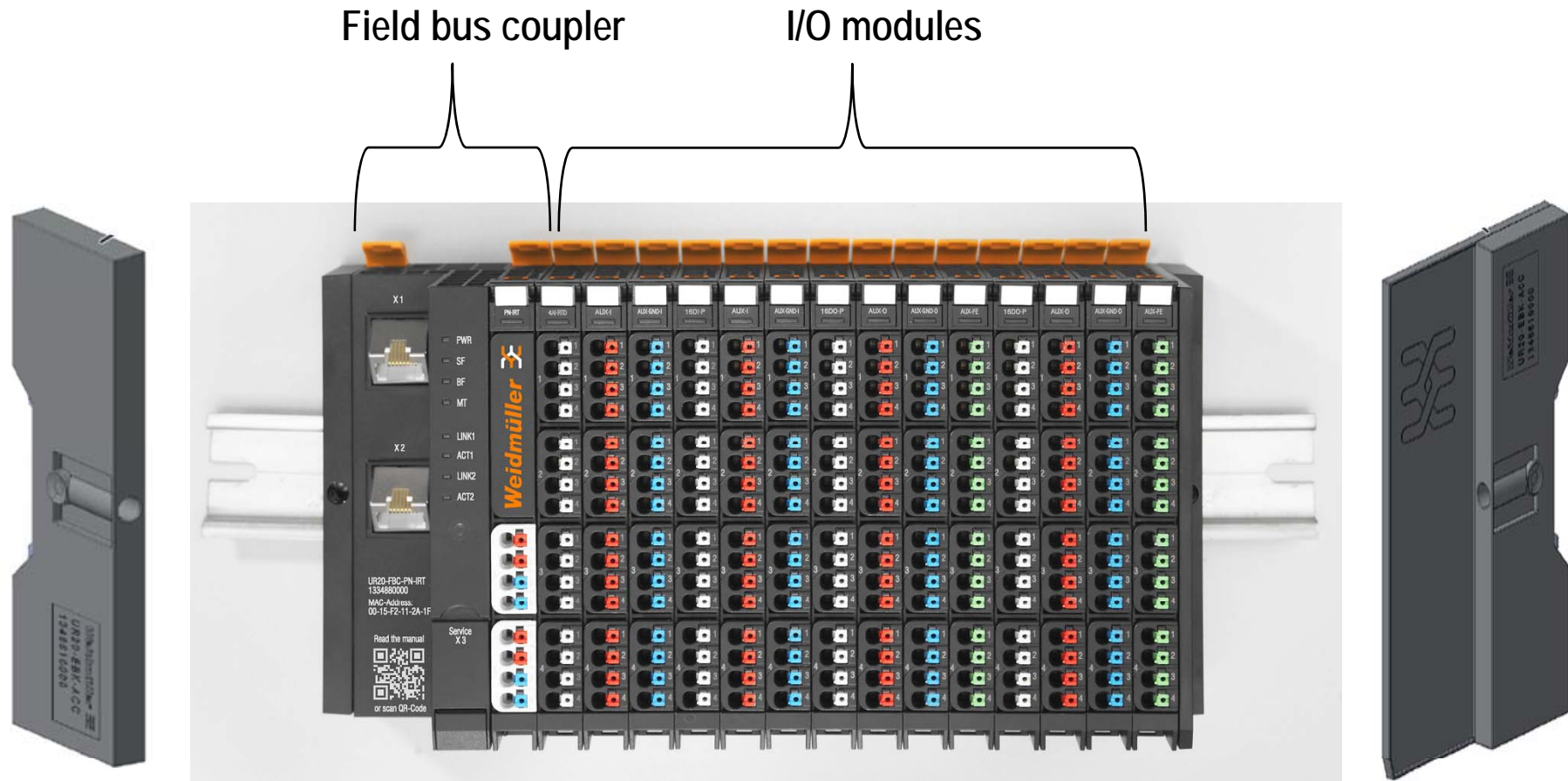
Target Segment 7: General Machinery



5. What we have?



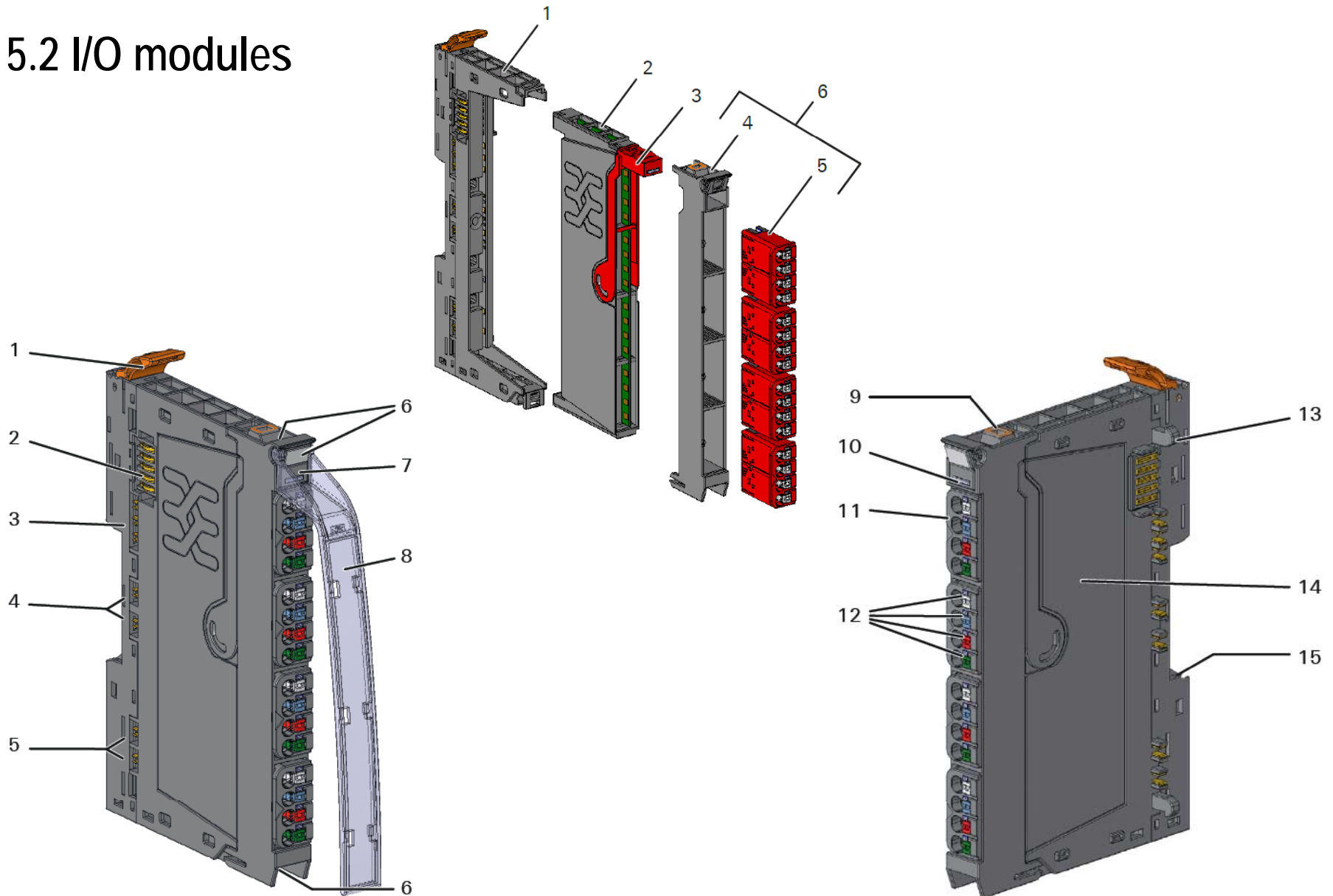
A station consists of coupler and modules



5.1 Field Bus Coupler

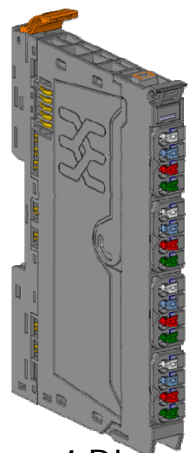


5.2 I/O modules

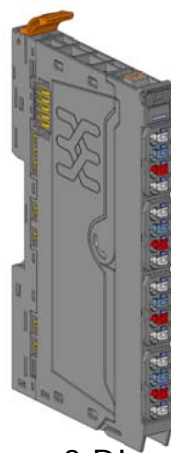


5.2.1 Product Overview of digital input modules

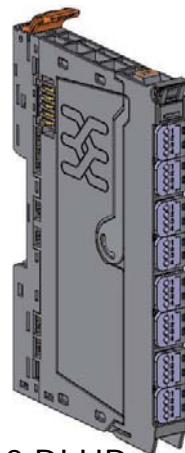
Order number	Type	Description
1315170000	UR20-4DI-P/ N	4 digital inputs with 3-wire connection + FE (supply sensor included)
1460140000	UR20-2DI-P-TS	2 digital inputs with time stamp function
1460150000	UR20-4DI-P-TS	4 digital inputs with time stamp function
1394400000	UR20-8DI-P/ N -3W	8 digital inputs with 3-wire connection (supply sensor included)
1315190000	UR20-8DI-P-3W-HD	8 digitale Inputs with 3-wire connection HD
1315200000	UR20-16DI-P/ N	16 digital Inputs
1315210000	UR20-16DI-P/ N -PLC-INT	16 digital Inputs with 20 pol flat ribbon cable
1550070000	UR20-4DI-2W-230V-AC	4 digital Inputs 120V to 230V



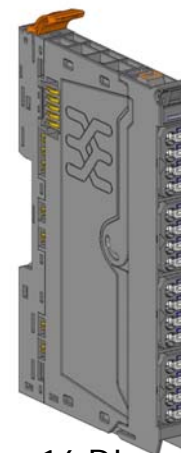
4 DI



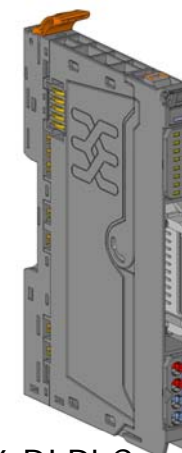
8 DI



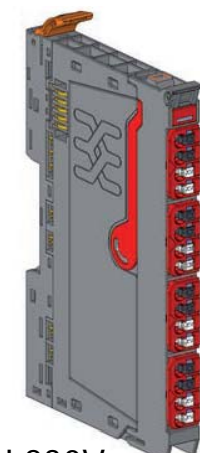
8 DI HD



16 DI



16 DI PLC



4 DI 230V

/N = also available as N-switching module

5.2.2 Product overview: digital output modules

Order number	Type	Description
1315220000	UR20-4DO-P/ N	4 digital outputs with 3-wire connection + FE (actuator supply included), max. 0.5 A per channel
1315230000	UR20-4DO-P/ N -2A	4 digital outputs with max. 2 A per channel
1315230000	UR20-4DO-PN-2A	4 digital outputs, switching positively or negatively with max. 2 A load per channel
1315240000	UR20-8DO-P/ N	8 digital outputs with 3-wire connection + FE (actuator supply included), max. 0.5 A per channel
1315250000	UR20-16DO-P/ N	16 digital outputs, max. 0.5 A load per channel
1315270000	UR20-16DO-P/ N -PLC-INT	16 digital outputs or with 20-pole ribbon cable, max. 0.5 A load per channel
1315550000	UR20-4RO-CO-255	4 digital outputs as CO contacts, max. 6 A load per channel
1315540000	UR20-4RO-SSR-255	4 digital outputs with solid-state relays, max. 0.5 A load per channel

/N = also available as N-switching module

5.2.3 Product overview: analogue input and output modules

Order number	Type	Description
1315700000	UR20-4AI-RTD-DIAG	4 analogue temperature inputs for all standard temperatures Resistance sensors: PT100, PT200, PT500, PT1000, Ni100, Ni120, Ni200, Ni500, Ni1000, Cu10, resistance
1315710000	UR20-4AI-TC-DIAG	4 analogue temperature inputs for all standard temperatures Thermocouple sensors: Thermocouple type: K, J, B, N, E, R, S, T, L, U, C
1315680000	UR20-4AO-UI-16	4 analogue outputs, universal for all standard signals: 0 – 5 V, ± 5 V, 0 – 10 V, ± 10 V, 1 – 5 V, 2 – 10 V 0 – 20 mA, 4 – 20 mA, 16-bit resolution
1315730000	UR20-4AO-UI-16-DIAG	As above with diagnostics and HD connector
1510690000	UR20-4AO-UI-16-HD	HD connector

5.2.4 Product overview: function modules

Order number	Type	Description
1315600000	UR20-2PWM-0.5A	2-channel pulse width modulation module, digital outputs, push/pull output, max. 0.5 A load per channel, max. 40 kHz
1315610000	UR20-2PWM-2A	2-channel pulse width modulation module, digital outputs, push/pull output, max. 2 A load per channel, max. 40 kHz
1315570000	UR20-1CNT-100-1DO	1-channel counter module 100 kHz with hardware and software latch, gate, reset and 1 digital output
1315590000	UR20-2CNT-100	2-channel counter module 100 kHz with software, latch, gate and reset
1315580000	UR20-1CNT-500	Counting frequency 500 kHz max. (A/B channel, 1/2/4-times sampling or pulse and direction)
1508080000	UR20-2FCNT-100	Frequency counter module

Product overview: function modules

Order number	Type	Description
1508090000	UR20-1SSI	UR20-1SSI digital interface module can read differential signals (RS422) from an SSI encoder
1315750000	UR20-1COM-232-485-422	Serial data can be exchanged between the PLC and a data terminal device
2007430000	UR20-1COM-SAI-PRO	Up to 15 SAI Active Universal Pro can be connected to the u-remote station via the UR20-1COM-SAI-PRO communication module

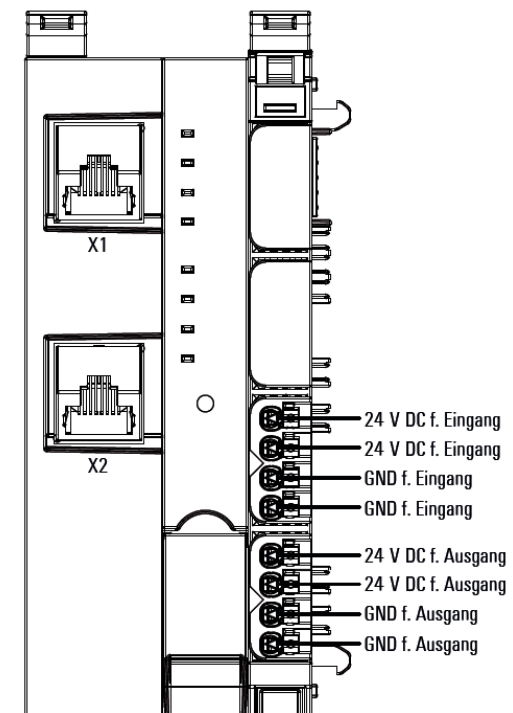
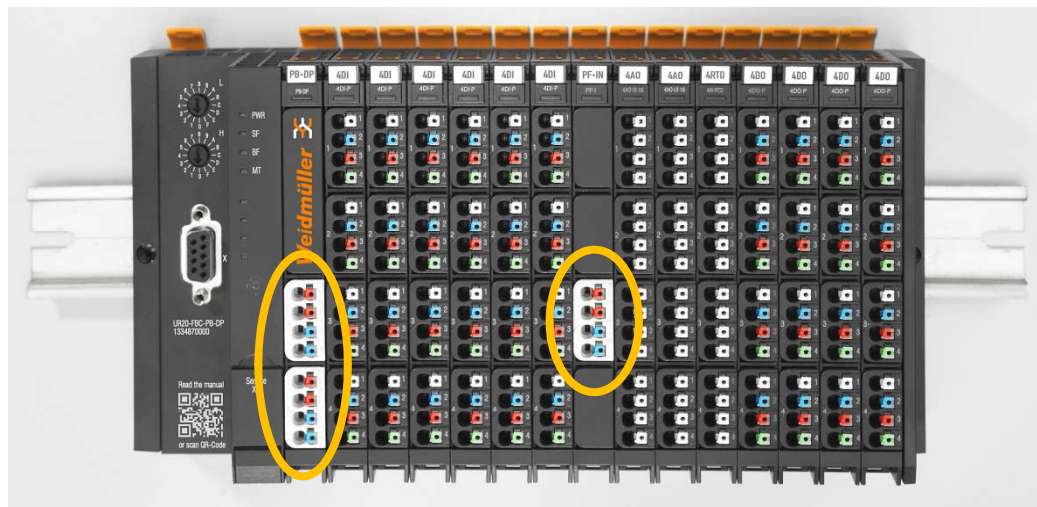
5.3 Supply of the u-remote system

There are 3 power supply paths in the system

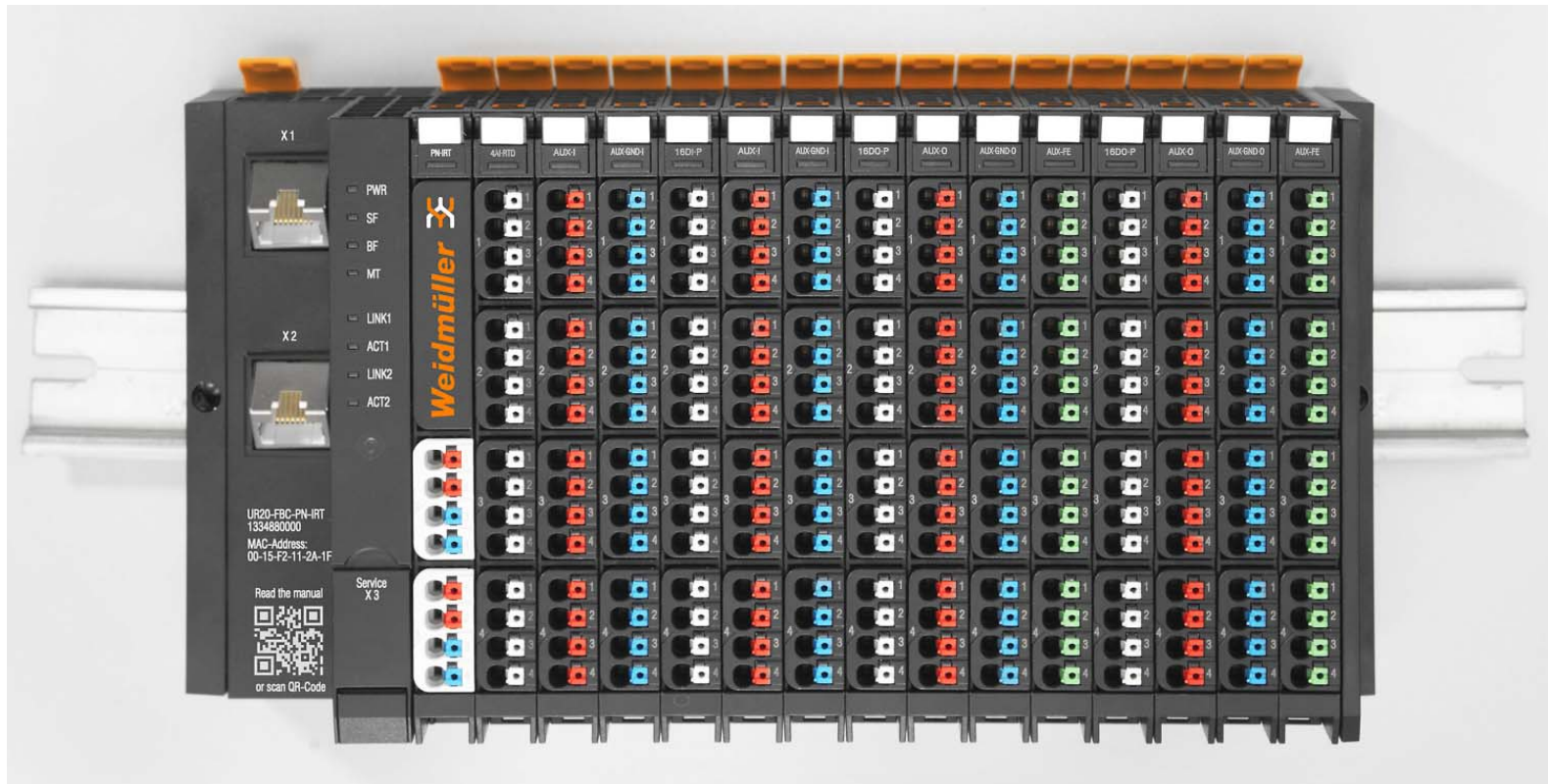
1. 5V system supply: is generated by the coupler and used internally
2. 24 V DC max. 10 A input supply
3. 24 V DC max. 10 A output supply

The first supply (24V) must be connected to the coupler.

Depending on consumers, other feed-in modules can be used for the output or input.



6. Why we are special ?

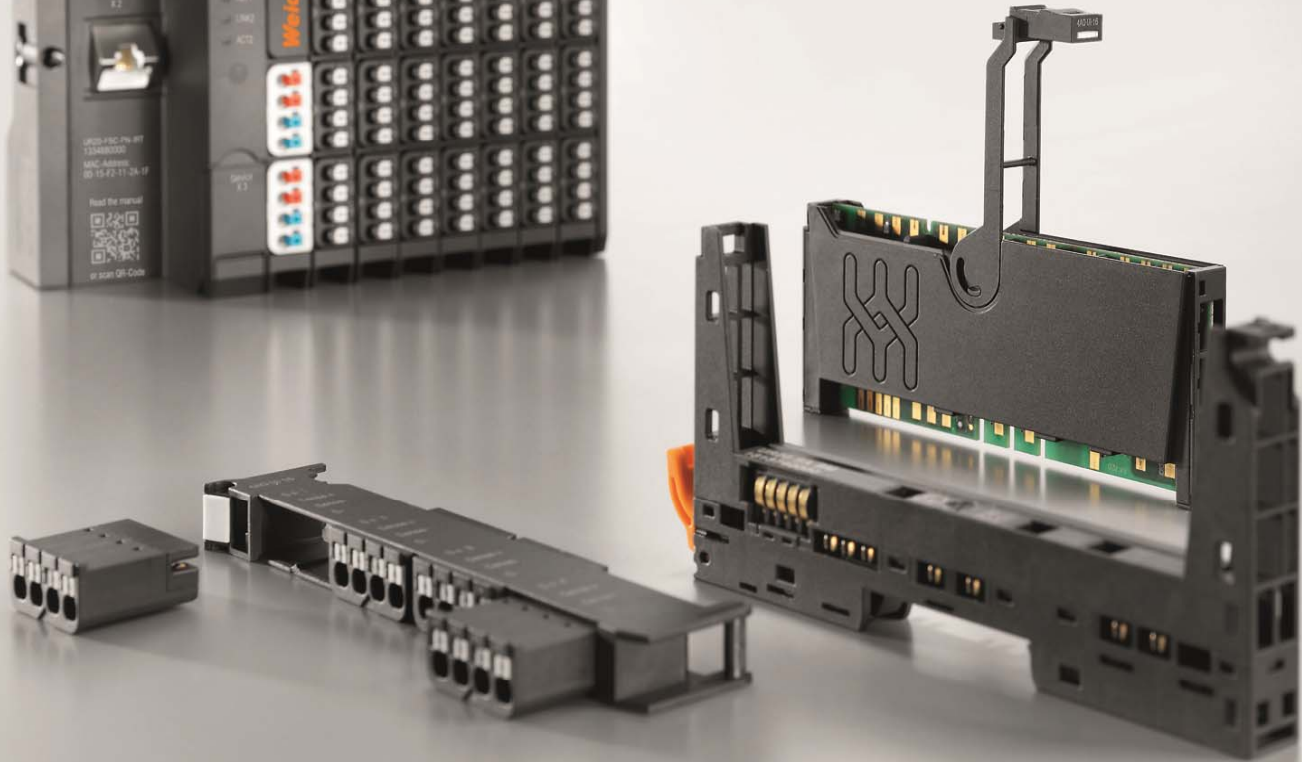


universal
design award 2013

product
design award
2013

German
Design Award

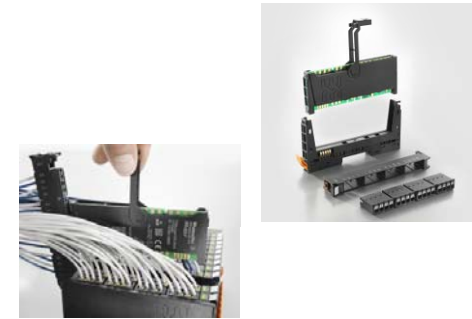
NOMINEE



Integrated plug-in connector



Modular system with hot swap



Web server



Thinnest design



Separate I/O current paths



LEDs on channel and module





Thank you for your interest!

Let's connect!