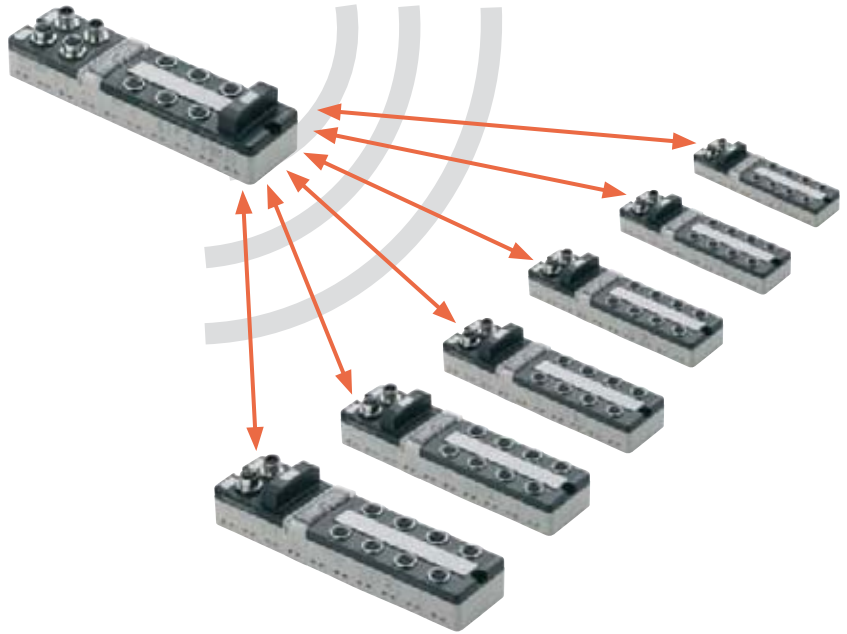


SAI-Bluetooth

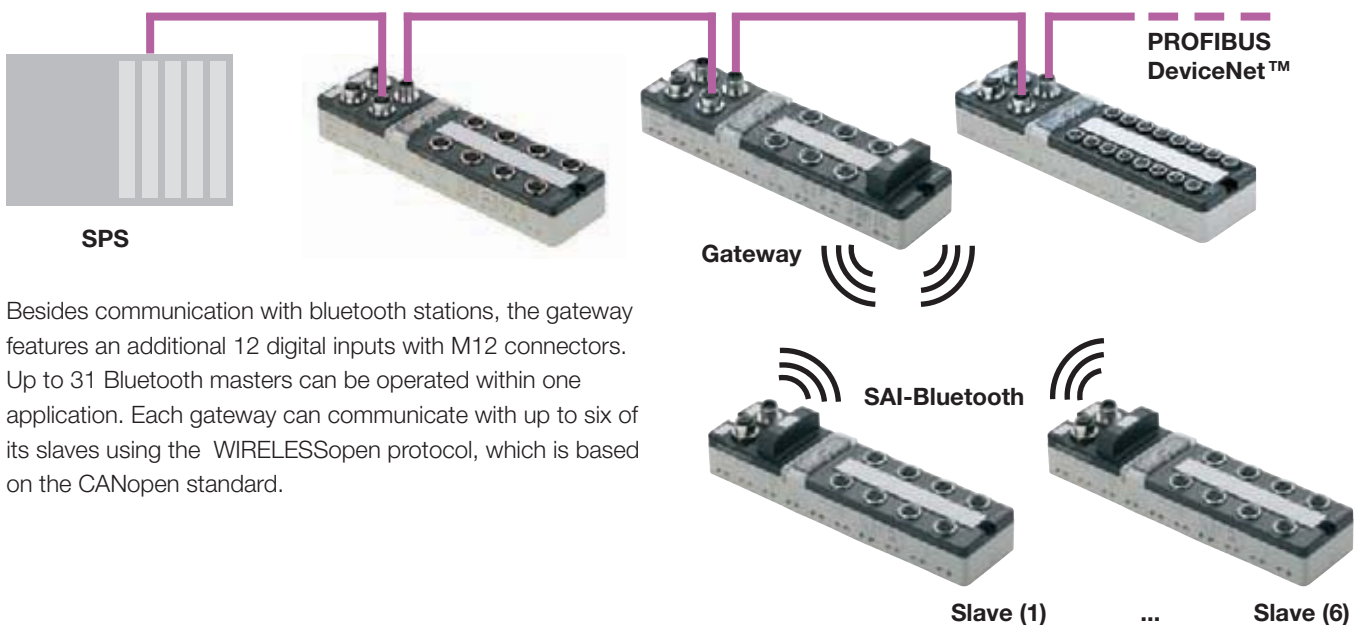
The Concept

A Bluetooth master can perform wireless communication with up to six slave stations. All stations function as field devices with IP67 protection. The connection from the sensor or actuator utilizes a M12 connector.



The Implementation

The Bluetooth gateway (master) functions as a slave in a PROFIBUS-DP network or a DeviceNet™ network. Together with the slaves, it is configured via GSD or EDS files.

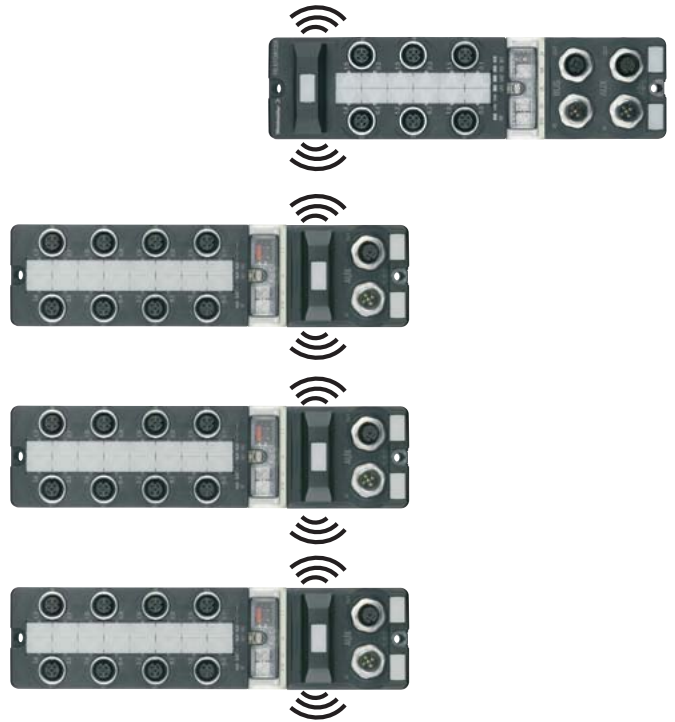


Besides communication with bluetooth stations, the gateway features an additional 12 digital inputs with M12 connectors. Up to 31 Bluetooth masters can be operated within one application. Each gateway can communicate with up to six of its slaves using the WIRELESSopen protocol, which is based on the CANopen standard.

The Products

- Profibus or DeviceNet™ slave with 12 digital inputs and Bluetooth gateway function (master) for 6 Bluetooth slaves
- Bluetooth slave with 16 digital inputs
- Bluetooth slave with 8 digital inputs and 8 digital inputs or outputs (configurable)
- Bluetooth slave with 4 digital and 4 analogue inputs and 2 digital and 2 analogue outputs

All I/O signals on M12 connectors



Advantages

- Interference-resistant data communication without cable, e.g., for mobile sections of the facility.
- Classic distributor with the standard installation procedure
- Configuration as standard PROFIBUS-DP components
- Full network transparency also for wireless stations
- Convenient address settings, in illuminated address space
- Comprehensive diagnosis and status display on each module, for operating voltages and communication
- Generous surface for identification marking, with background lighting and arrow-shaped status display. Additional colour display change in event of I/O error



Gateway

SAI-AU

M12



Ordering data

IO variants	
	12 digital inputs
	12 digital inputs

Information

Type	Qty.	Order No.
SAI-AU M12 GW PB/BT 12I	1	1006980000
SAI-AU M12 GW DN/BT 12I	1	1060020000

Type	Qty.	Order No.

Technical data bus system

Bus sharing unit	Slave
Profibus transmission rate	Max. 12 Mbaud
DeviceNet™ transmission rate	Max. 500 kBaud
Diagnostic display	red
Fieldbus interface	RS 485
Electrical isolation available	yes
Station addresses	Rotary switch 1-125
bps rate	automatic

Information

Technical data

General data	
Insulation material of housing	PBT
Flammability class UL 94	V-0
Operation temperature	0 °C ... 55 °C
Storage temperature	-25 °C ... 70 °C
Ingress protection class	IP 67

Electrical data electronics-module	
Operating voltage	24,0 V DC (18...30 V)
Digital inputs	TYPE1 to EN61131-2
UL certification in preparation	

Accessories

Plug	
	Metal plug, Male M12, B-coded, straight
	Metal plug, Socket M12, B-coded, straight
	Connecting plug in M12 Plug
	Terminating resistor in M12 plug
	Metal plug, Male M12, 5-pole, shield A-coded
	Metal plug, Socket M12, 5-pole, shield A-coded

Miscellaneous accessories

	Marker, transparent
	M12 protective cap

Information

Type	Qty.	Order No.
SAISM 5/8S M12 5P B-COD	1	1784790000
SAIBM 5/8S M12 5P B-COD	1	1784780000
SAIEND PB M12 5P B-COD	1	1784770000
SAIEND CAN-M12 5P A-COD	1	1784760000
SAIS-M-5/8S M12 5P A-COD	1	1784740000
SAIB-M-5/8S M12 5P A-COD	1	1784750000
ESG 8/13.5/43.3 SAI AU	5	1912130000
SAI-SK-M12-UNI	20	2330260000

Slaves

SAI-AU

M12



Ordering data

IO variants	
	16 digital inputs
	16 digital inputs / 8 digital outputs
	4 analogue inputs / 2 analogue outputs / 4 digital inputs
Information	

Type	Qty.	Order No.
SAI-AU M12 BT 16DI	1	1006940000
SAI-AU M12 BT 16DI/8DO	1	1006930000
SAI-AU M12 BT4AI2AO2DIO	1	1006920000
Information		

Type	Qty.	Order No.
Information		

Technical data

General data	
Insulation material of housing	PBT
Flammability class UL 94	V-0
Operation temperature	0 °C ... 55 °C
Storage temperature	-25 °C ... 70 °C
Ingress protection class	IP 67
Electrical data electronics-module	
Operating voltage	24,0 V DC (18...30 V)
Max. current carrying capacity per output signal	0,5, 2,0 A
Output levels	Short-circuit-protected
Total current. max.	8 A
Digital inputs	TYPE1 to EN61131-2
Analogue outputs	-10...+10 V, 0...+10 V, 0...20 mA, 4...20 mA
Analogue inputs	-10...+10 V, 0...+10 V, 0...20 mA, 4...20 mA
Resolution	12 Bit
Accuracy	< 0,2 %
Information	

Accessories

Miscellaneous accessories	
	Marker, transparent
	M12 protective cap
Information	

Type	Qty.	Order No.
ESG 8/13.5/43.3 SAI AU	5	1912130000
SAI-SK-M12-UNI	20	2330260000
Information		