Industrial Ethernet gateway, IP65/ IP67/ IP69k

- Gateway for Industrial Ethernet standards, incl. OPC UA, for use in environments requiring a high degree of protection
- Simple configuration via Bürkert Communicator software
- Batch controller functionality for precise dosing of liquids
- Connection of up to eight field devices or passive junction boxes
- Integrated central configuration management for easy device replacement

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

Type 8742
Mass flow controller (MFC)/mass flow meter (MFM) for gases

Type 8653
AirLINE Field – the valve island – optimised for process automation

Type 3280
Electromotive 2-way globe proportional valve

Type 8605
PWM control electronics for electromagnetic proportional valves

Type 8681
Control head for decentralized automation of hygienic process valves

Type ME64
I/O modules IP65/IP67/IP69k

Type 8906
Online water analysis system

Type 8905
Online water analysis system

Type description

The Industrial Ethernet gateway Type ME63 is the central control unit for Bürkert products (valves, sensors, process control systems), which is based on EDIP (Efficient Device Integration Platform) and used in processes requiring a high degree of protection. Type ME63 consists of a gateway which transmits the internal CANopen-based communication of the Bürkert field devices to all common industry standards for Industrial Ethernet. With the help of eight M12 ports, CANopen-based Bürkert field devices can be connected directly to the gateway Type ME63. The power supply of the field devices can be provided either by an M12 L-Power (up to 32 A) or an A-coded M12 connector (up to 4 A). One of these additional participants can be either Type ME64 (I/O module) or a passive junction box (included as an accessory part with this data sheet). The passive junction box is intended to simply integrate further participants into the system of the gateway Type ME63. The power supply via the M12 L-Power input can supply further field devices located close to the process via the second M12 L-Power output. Also integrated is an Ethernet switch which allows the direct integration of further field devices located close to the process in the Ethernet communication.

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Visit product website

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "3. Dimensions" on page 5.
Weight	400 g
Material	
Housing	PC (polycarbonate)
Status display	RGB-LED according to NAMUR NE107
Configuration memory	Micro SD card (not included in delivery) (Configuration provider function: for optional storage of unit parameters, configuration and easy exchange of EDIP modules)
Electrical data	
Operating voltage	24 V DC ± 10 %, residual ripple 10 % [1.]
Power consumption of the module	2.4 W
Maximum input current	4 A for supply via X4 (M12, A-coded, plug), 32 A for supply via XD1 (M12, L-coded, plug), the supply the module automatically detects the power supply via X4 instead of XD1
Maximum output current	4 A per büS/CANopen connection (X1-X3, X5-X8) with supply via XD1, 4 A in total (X1-X3, X5-X8) with supply via X4
Product connections	
Communication interface (integrated switch for Industrial Ethernet)	Connections XG1 and XG2, M12, D-coded (socket) PROFINET EtherNet/IP Modbus TCP EtherCAT CC-Link IE Field Basic OPC UA
Electrical connection	Via X4 (büS-IN): M12, A-coded, or via XD1 (IN) and XD2 (OUT): M12, L-coded
büS/CANopen communication (proprietary)	X1-X3 and X5-X8 (M12, socket), X4 (M12, plug), preferably for the büS/CANopen input for integration of the module into a büS/CANopen network
Approvals and conformities	
Further information can be found in chapter "2. Approvals and conformities" on page 4.	
Environment and installation	
Ambient temperature	- 20 °C...+ 60 °C
Storage temperature	- 30 °C...+ 80 °C
Degree of protection	IP65, IP67 and IP69k according to EN 60529 / IEC 60529 (with cables connected and with protective caps on unused connections)
Height above sea level	Maximum 2000 m

1.) The requirements of all connected components must be taken into consideration when selecting the power supply.

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2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

2.4. North America (USA/Canada)

ME63 REV.2

Approval	Description
c UL us LISTED	**Optional: UL Listed for the USA and Canada** UL Listed for the USA and Canada according to: UL 61010-1 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE – Part 1: General Requirements) Certificate No.: E258716

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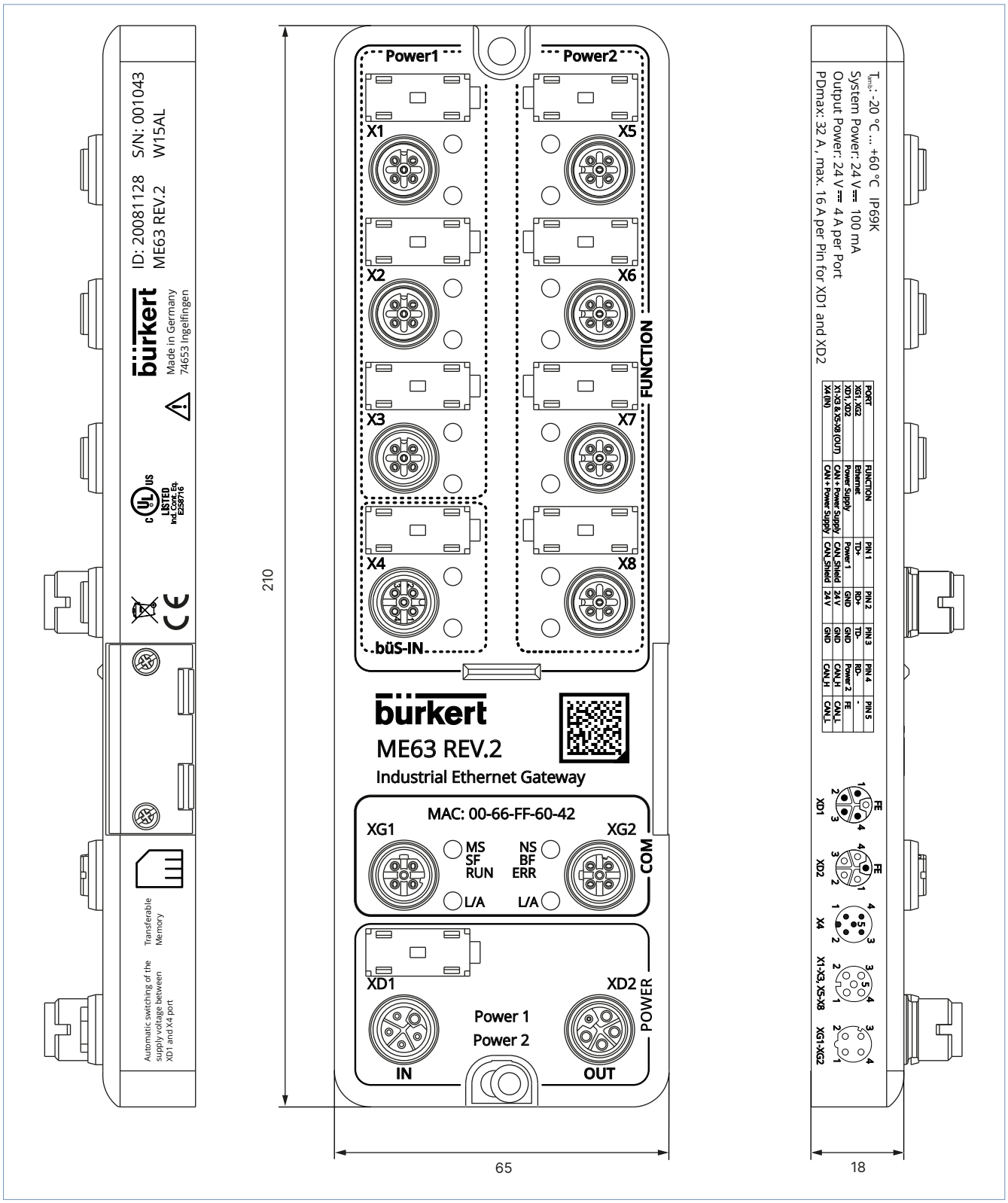
3. Dimensions

Note:
Dimensions in mm, unless otherwise stated



PORT	FUNCTION	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
XG1, XG2	Ethernet	TD+	RD+	TD-	RD-	
XD1, XD2	Power Supply	Power 1	GND	GND	Power 2	FE
X1-X3 & X5-X8 (OUT)	CAN + Power Supply	CAN_Shield	24 V	GND	CAN_H	CAN_L
X4 (IN)	CAN + Power Supply	CAN_Shield	24 V	GND	CAN_H	CAN_L

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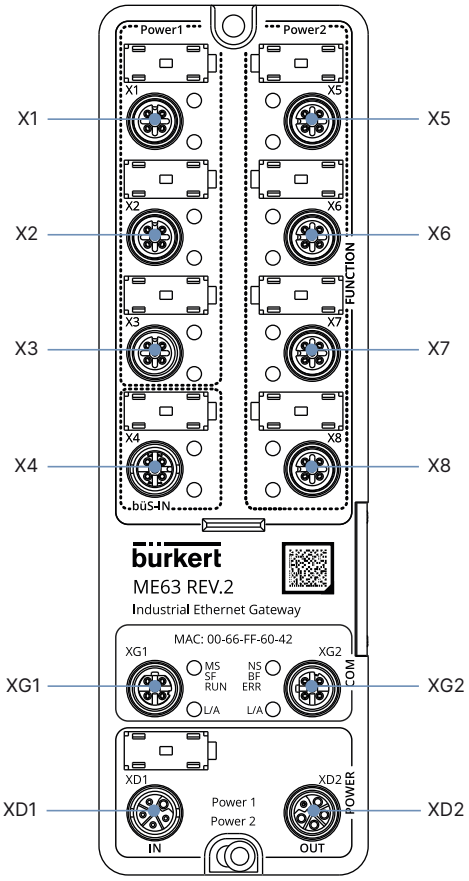
4. Product connections

4.1. Connection details

Note:
The device automatically recognises if the power supply is connected to XD1 or X4.

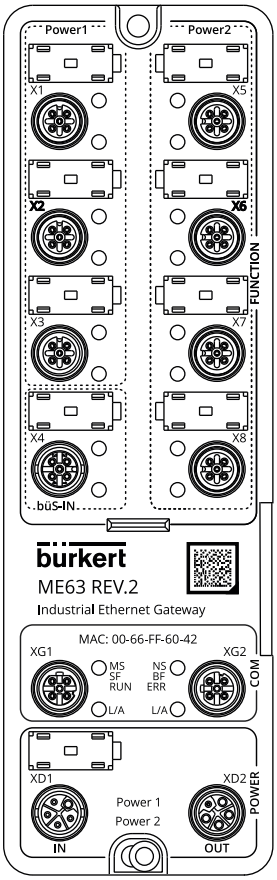


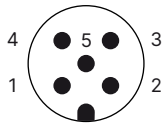
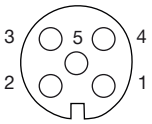
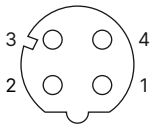
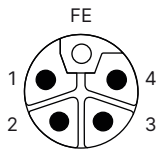
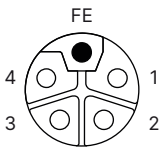
Module supply via XD1/XD2			Module supply via X4	
Port	**Power domain**	**Maximum current per M12 for connecting a device via büS/ CANopen**	**Maximum current per M12 for connecting a device via büS/CANopen**	**Description**
X1	Power1	4 A	In total for X1-X3, X5-X8, 4 A (minus the module supply)	M12-A, socket, büS/CANopen and 24 V DC
X2		4 A		
X3		4 A		
X5	Power2	4 A		
X6		4 A		
X7		4 A		
X8		4 A		
X4	–	–	Feed-in: 4 A	M12-A, plug, büS/CANopen and 24 V DC, preferably for büS/CANopen connection
XD1 [1.)]	Power1 / Power2	Feed-in: 16 A / 16 A	–	M12-L, plug, Power IN, maximum 32 A, for feeding in the power supply
XD2 [1.)]	Power1 / Power2	Feed-in: 16 A / 16 A	–	M12-L, socket, Power OUT, maximum 32 A, for supplying power to other devices

1.) In an earlier version of the module
- the connections were labelled as follows: XD1/XD2 = X03/X04, XG1/XG2 = X01/X02
- the power supplies Power1 and Power2 were internally connected to each other

4.2. Pin assignment

Note:
The L-coded M12 connection (XD1, XD2) is designed for connecting 2 power supplies, each up to a maximum of 16 A.



M12, X4 (plug) and X1-X3, X5-X8 (socket), A-coded		Pin	Pin assignment	Function
		**1**	CAN_Shield	Shielding
		2	24 V	Power supply
		3	GND	Power supply GND
		4	CAN_H	büS/CANopen communication
		5	CAN_L	büS/CANopen communication
M12, XG1, XG2 (socket), D-coded		**Pin**	**Pin assignment**	**Function**
		**1**	TD +	Transmitting data +
		2	RD +	Receiving data +
		3	TD –	Transmitting data –
		4	RD –	Receiving data –
M12, XD1 (plug), XD2 (socket), L-coded		**Pin**	**Pin assignment**	**Function**
		**1**	24 V	Power supply Power1
		2	GND	Power supply Power1
		3	GND	Power supply Power2
		4	24 V	Power supply Power2
		5	FE	Shielding

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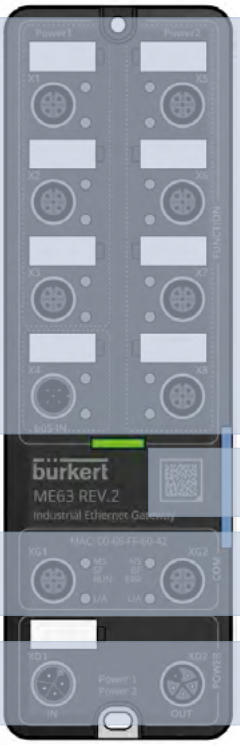
5. Product design and assembly

5.1. Product features



Function
Connection of terminal devices or further distributors, büS/CANopen and operating voltage on M12, A-coded

Memory
Micro SD card for saving device-specific settings

Communication
Ethernet, M12, D-coded

Power supply
M12, L-coded

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6. Product accessories

6.1. EDIP – Efficient Device Integration Platform

EDIP is a Bürkert device platform that standardises the operation, communication and interfaces of many process devices (for example, sensors, mass flow controllers). Thanks to EDIP, devices can be intelligently networked and operated with the standardised software, the Bürkert Communicator. The backbone and connecting link of EDIP is a digital interface that complies with the CANopen standard and can always be used in a manner compatible with it.

EDIP offers the user the following advantages:

- Interoperability - guaranteed by the uniform interface
- Comfortable operation and display concept
- Faster and simplified commissioning
- Modularity - allows the devices to be adapted to individual customer requirements
- Easy transfer and safeguarding of device settings

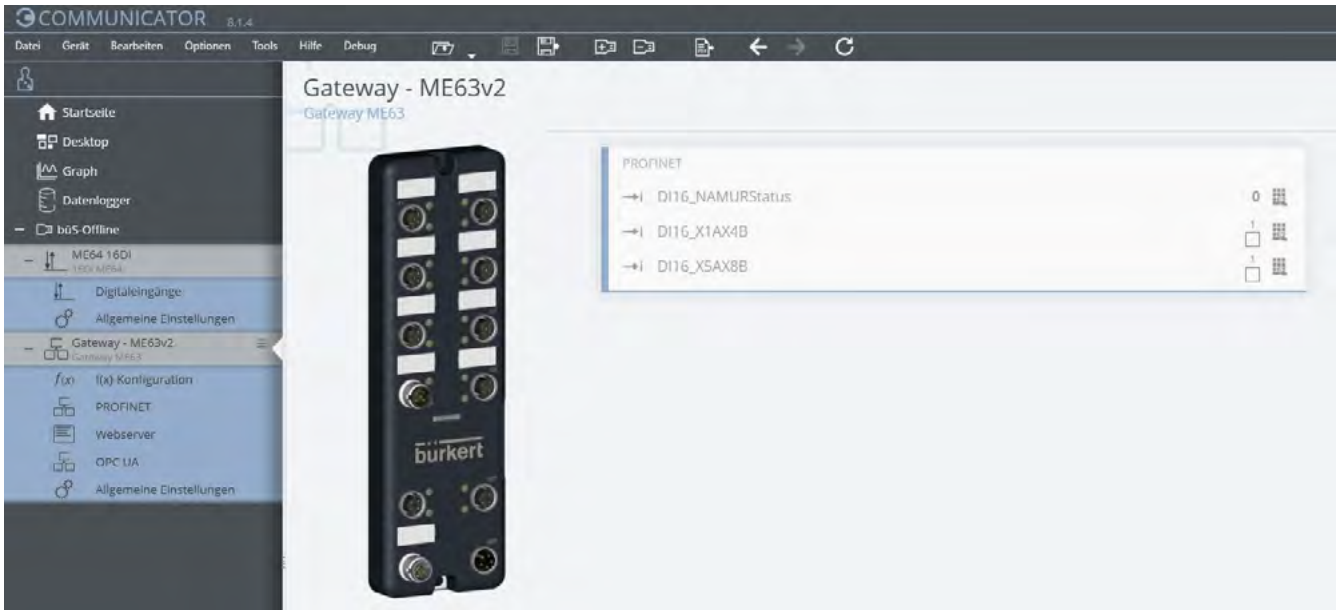
6.2. Bürkert Communicator software

Note:
The associated communication software can be downloaded under **Type 8920** ▶.

The Bürkert Communicator is the most important software tool of the device platform EDIP (Efficient Device Integration Platform). The extensive features of this universal tool facilitate the configuration and parameterisation of all devices equipped with the digital CAN-open-based interface. The Bürkert Communicator provides the user with a complete overview of all cyclic process values and acyclic diagnostic data. The integrated graphical programming environment enables the creation of control functions for decentralised sub-systems. The connection to the PC can be established via a USB-büS interface set. This is available as an accessory, see **"8.6. Ordering chart accessories" on page 12**.

The Bürkert Communicator enables:

- Configuration, parameterisation and diagnostics of EDIP devices/networks
- Easy and convenient assignment (mapping) of cyclical values
- Graphical display of process values
- Firmware update of the connected EDIP devices
- Saving and restoring device configurations



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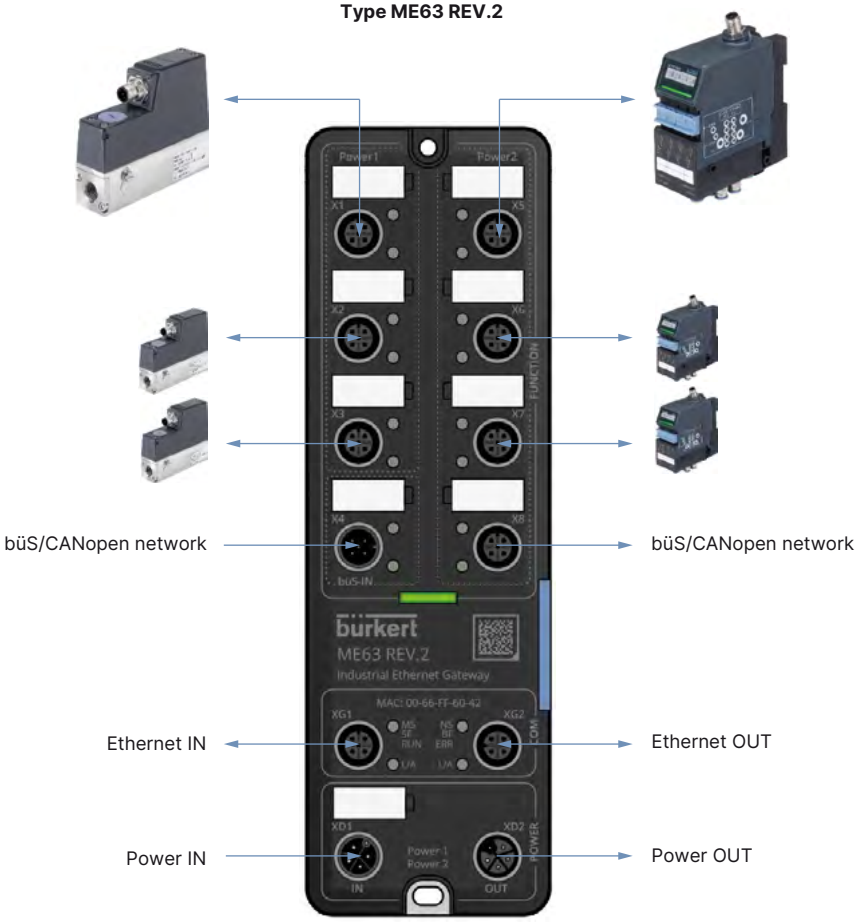
7. Networking and combination with other Bürkert products

Note:

- Drop lines must not be longer than 5 m.
- Signal integrity measurement is recommended for star cabling of more extensive networks.
- See also **cabling guide** ▶

Type ME63 REV.2



Short description of the illustrated example

- Connection of 6 Bürkert devices via drop line to X1-X3, X5-X7
- Integration into a büS/CANopen network via X4 and X8
- All büS devices can be reached via the Ethernet connection.
- Additional devices can be integrated into the Ethernet communication via the second Ethernet port XG2.
- Further devices can be supplied via the second power port XD2.

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8. Ordering information

8.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

8.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

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8.3. Ordering chart

Note:
Please note that the ME63 gateway modules are not configured from the factory. However, these absolutely must be configured in order to be used in a system. The device description files must be generated with the Bürkert Communicator software before the start-up of a system. See **operating instructions Type ME63 ▶**.

8.4. Gateway-Modul

Description	Article no.
Gateway Industrial Ethernet Type ME63 REV.2	20081128

8.5. Software features

Description	Article no.
Licence for graphical programming (only required for a runtime of > 60 minutes) [1.]	567713
Batch controller licence for Type ME63 gateway [1.]	572948

1.) The active runtime is limited to 60 min without the licence.

8.6. Ordering chart accessories

Note:
A complete overview of all associated cables, connectors and other accessories can be found in the appendix of the **cabling guide ▶**.

Description	Article no.
Passive distributor Type ME66 (version 2, with separate power supply via X03)	20028654
16DI module (variant 2, with 8 frequency inputs) Type ME64	20021994
Display FieldConnect 3.5" (8.9 cm) Type ME61	368544
Display FieldConnect 7" (17.8 cm) Type ME61	358545
Micro-SD card for fieldbus gateway Type ME43 and Type ME63	774087
Protective cap for M12 plug	917155
USB-büS interface set 1 for connection to the Bürkert Communicator software: includes connection cable (M12 and micro USB), stick with integrated terminating resistor, power supply and software, Type 8923	772426
USB-büS interface set 2 (Type 8923) for connection to the Bürkert Communicator software: includes büS stick, connection cable to M12 plug, M12 connection cable on micro USB for the büS service interface, cable length: 0.7 m	772551
Bürkert Communicator software	**Typ 8920 ▶**

8.7. büS plug

Description	Article no.
Y-connector, 5-pin, A-coded; M12 socket to M12 plug and M12 socket	772420
Y-connector, 5-pin, A-coded, with power interruption; M12 socket to 2x M12 plug	772421
Y-connector, 5-pin, A-coded; with power interruption; M12 socket to M12 plug and M12 plug	775884
M12, büS terminating resistor 120 Ω, M12 plug, 5-pin	772424
M12, büS terminating resistor 120 Ω, M12 socket, 5-pin	772425

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8.8. Ordering chart cable

büS connection cable

Shielded cable, 2 × 0.75 mm², 2 × 0.34 mm²

Description	Article no.
M12 socket, straight, 5-pin, A-coded to M12 plug, straight, 5-pin, A-coded, cable length: 0.5 m	772403
M12 socket, straight, 5-pin, A-coded to M12 plug, straight, 5-pin, A-coded, cable length: 1 m	772404
M12 socket, straight, 5-pin, A-coded to M12 plug, straight, 5-pin, A-coded, cable length: 3 m	772405
M12 socket, straight, 5-pin, A-coded to M12 plug, straight, 5-pin, A-coded, cable length: 5 m	772406

Power cable

Unshielded cable, 5 × 2.5 mm²

Description	Article no.
M12 socket, straight, 5-pin, L-coded to M12 plug, straight, 5-pin, L-coded, cable length: 3 m	775063
M12 socket, straight, 5-pin, L-coded to M12 plug, straight, 5-pin, L-coded, cable length: 5 m	775064
M12 socket, straight, 5-pin, L-coded to M12 plug, straight, 5-pin, L-coded, cable length: 10 m	775065

Industrial Ethernet cable

Description	Article no.
M12 plug, straight, 4-pin, D-coded to M12 plug, straight, 4-pin, D-coded, cable length: 1 m	775040
M12 plug, straight, 4-pin, D-coded to M12 plug, straight, 4-pin, D-coded, cable length: 3 m	775042
M12 plug, straight, 4-pin, D-coded to M12 plug, straight, 4-pin, D-coded, cable length: 10 m	775044
M12 plug, straight, 4-pin, D-coded to RJ45 connector, cable length: 3 m	775052
M12 plug, straight, 4-pin, D-coded to RJ45 connector, cable length: 5 m	775053
M12 plug, straight, 4-pin, D-coded to RJ45 connector, cable length: 10 m	775054

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