Data sheet

IDM261-411S

IDM

MOBILE HANDHELD SCANNERS

SICK
Sensor Intelligence.

Ordering information

Type	part no.
IDM261-411S	6080751

Included in delivery: Rechargeable battery (1)

Other models and accessories → www.sick.com/IDM

Detailed technical data

Features

Application	Industrial application
Scanner design	Wireless variant
Sensor resolution	1,280 px x 800 px
Light source	LED, Visible, Red, 660 nm
Alignment aid	Laser, Red, 630 nm
Laser class	1 (EN/IEC 60825-1:2014)
Reading distance	30 mm ... 400 mm
Code resolution	≥ 0.07 mm [1)] ≥ 0.13 mm [2)]

[1)] Valid for Code 39.
[2)] Valid for Data Matrix code.

Mechanics/electronics

Supply voltage	5 V DC, ± 5 %
Current consumption	Operation (charge status incl. base station): 750 mA Standby: 175 mA
Housing color	Blue, gray
Enclosure rating	IP65
Weight	228 g
Dimensions (L x W x H)	104 mm x 76.3 mm x 176 mm
MTBF	100,000 h

Performance

Readable code structures	1D codes, 2D codes, Stacked
Bar code types	Code 39, Code 39 Full ASCII, Code 32, Code 128, GS1-128, Codabar, Code 11, Code 93, GS1 DataBar, Standard and Industrial 2 of 5, Interleaved & Matrix 2 of 5, IATA, UPC / EAN / JAN, UPC / EAN / JAN (with addition), Telepen, MSI/Plessey, UK/Plessey, Australian Post, China

	Post, German Post, US Planet, US Postnet, British Post, Intelligent Mail, Japan Post, Korea Post, Dutch KIX Post, Posi LAPA 4 State Code
2D code types	Data Matrix, MaxiCode, QR code, Aztec, MicroQR-Code, GS1 QR code, GS1 Data-Matrix
Stacked code types	PDF417, MicroPDF417, Code 49, Code 16K, Composite, Codablock F
Battery power	Over 60,000 scans with full battery
Code buffer	5,000 Codes (EAN, for scanning in batch mode), 100,000 Codes (EAN, for out of range scanning)

Interfaces

Ethernet	✓ , TCP/IP
Type of fieldbus integration	Optional, over external connection module CDF600-2
PROFINET	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Function	PROFINET Single Port, PROFINET Dual Port
EtherCAT®	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600
Serial	✓ , RS-232
PROFIBUS DP	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
USB	✓
Function	Keyboard wedge, COM-Port emulation
Bluetooth	✓
Remark	Bluetooth™ V4.0, 2.402 ... 2.4830 GHz
Function	Wireless operating range up to 100 m (free view), batch function for expansion of the wireless radius, up to seven scanners communicate with one base station
Optical indicators	2 LEDs (good read, charge of battery , radio connection status)
Acoustic indicators	Beeper, can be switched off
Vibration	Yes
Configuration software	IDM Setup Tool

Ambient data

Shock resistance	50 drops from 2 m height on concrete
Ambient operating temperature	–20 °C ... +50 °C
Storage temperature	–40 °C ... +70 °C
Relative humidity	95 %, Non-condensing
Ambient light immunity	100,000 lx

General notes

Items supplied	The rechargeable battery is included with delivery
Note	A base station, a connecting cable, and possibly also a power supply unit are required for commissioning. Not free of paint wetting impairment substances.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓

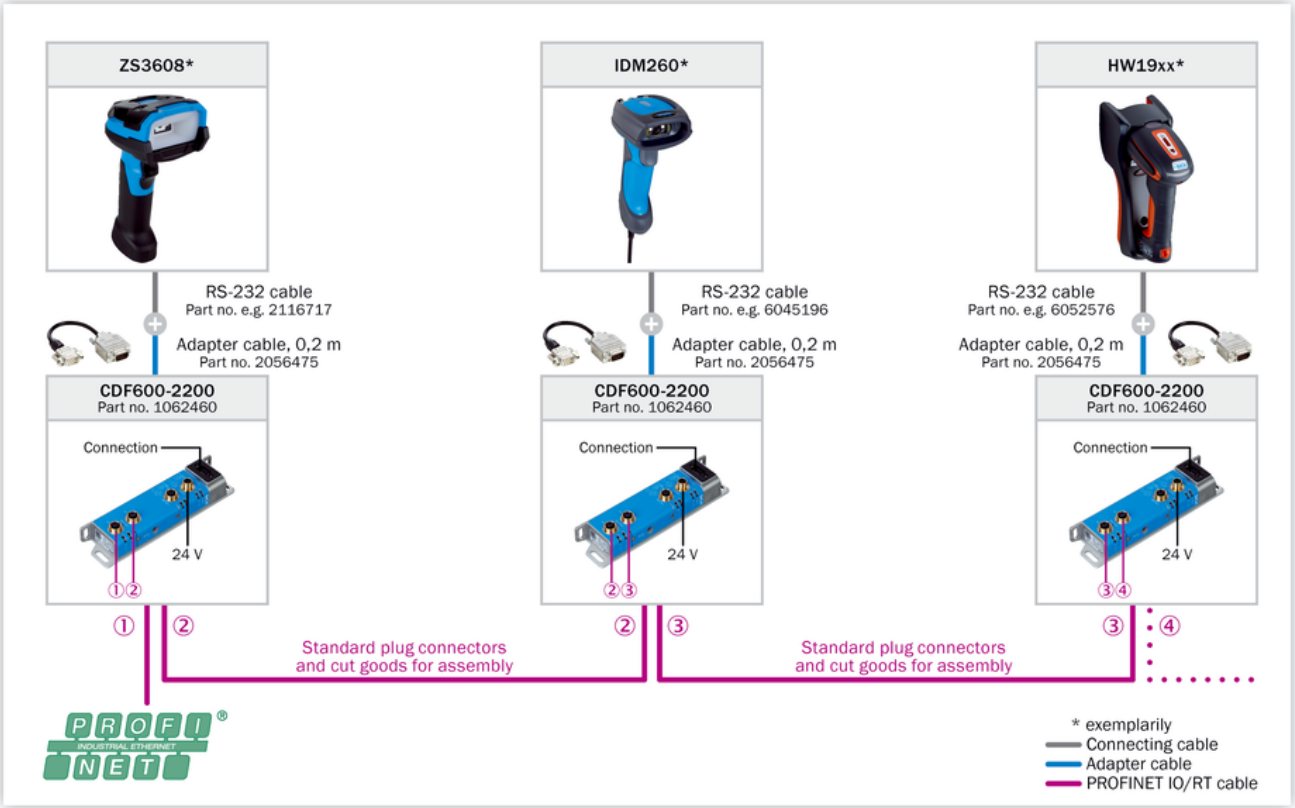
China RoHS	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓
Bluetooth	✓

Classifications

ECLASS 5.0	27280101
ECLASS 5.1.4	27280101
ECLASS 6.0	27280101
ECLASS 6.2	27280101
ECLASS 7.0	27280101
ECLASS 8.0	27280101
ECLASS 8.1	27280101
ECLASS 9.0	27280101
ECLASS 10.0	27280101
ECLASS 11.0	27280101
ECLASS 12.0	27280101
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	43211701

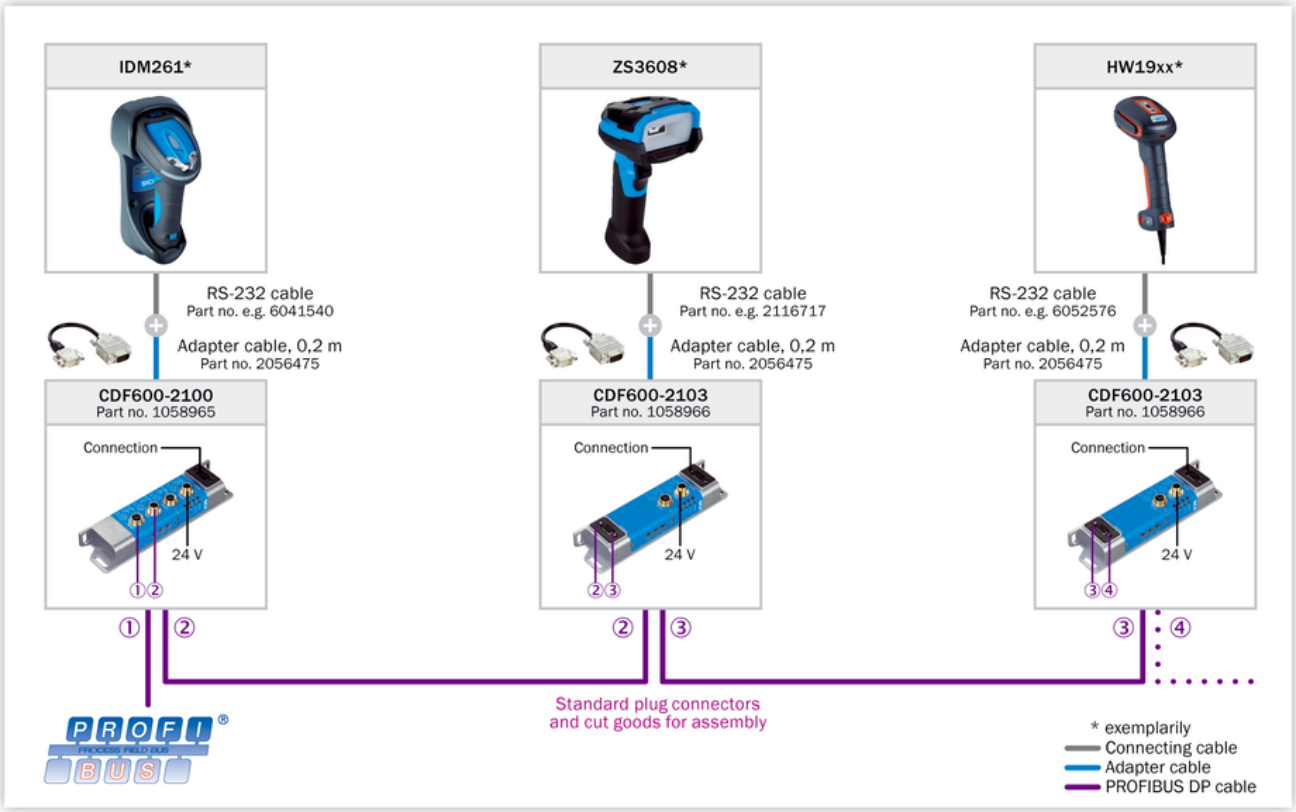
Connection diagram PROFINET IO/RT

PROFINET IO/RT



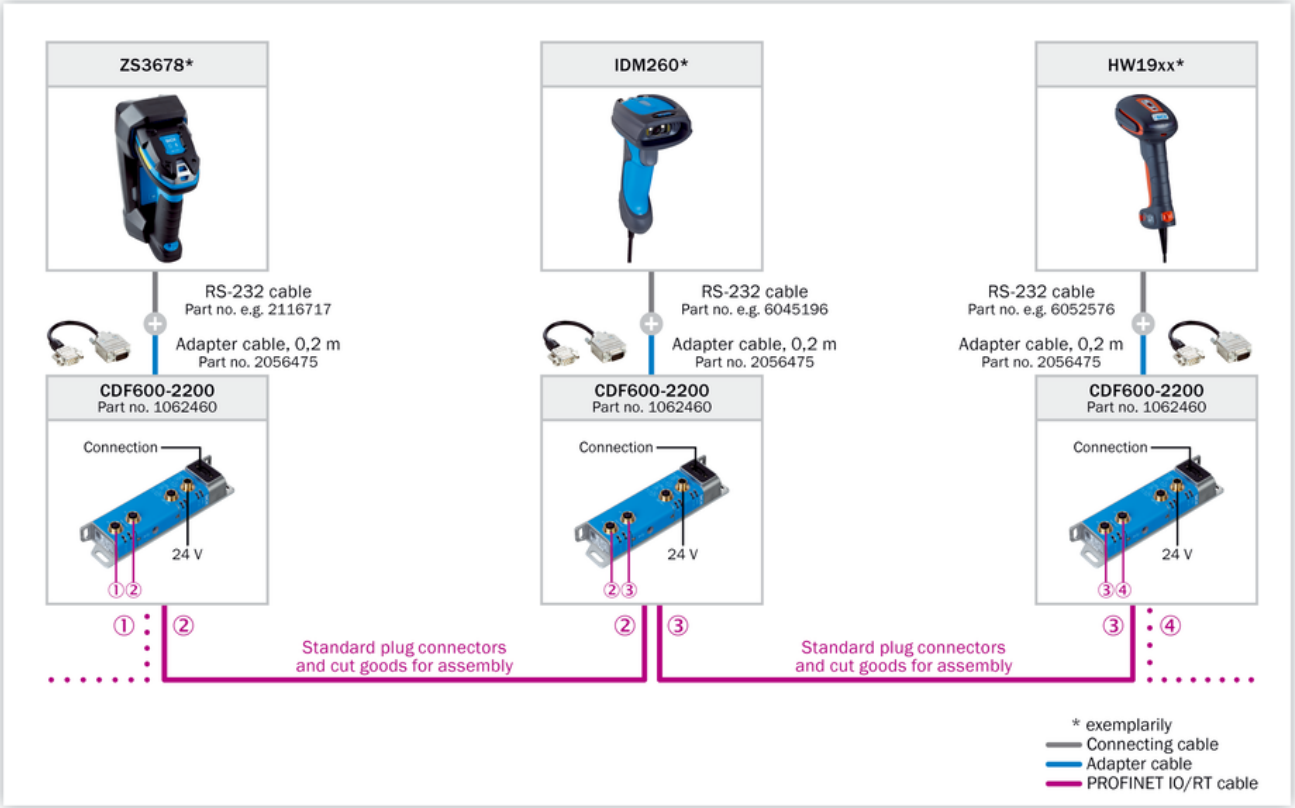
Connection diagram PROFIBUS DP

PROFIBUS DP



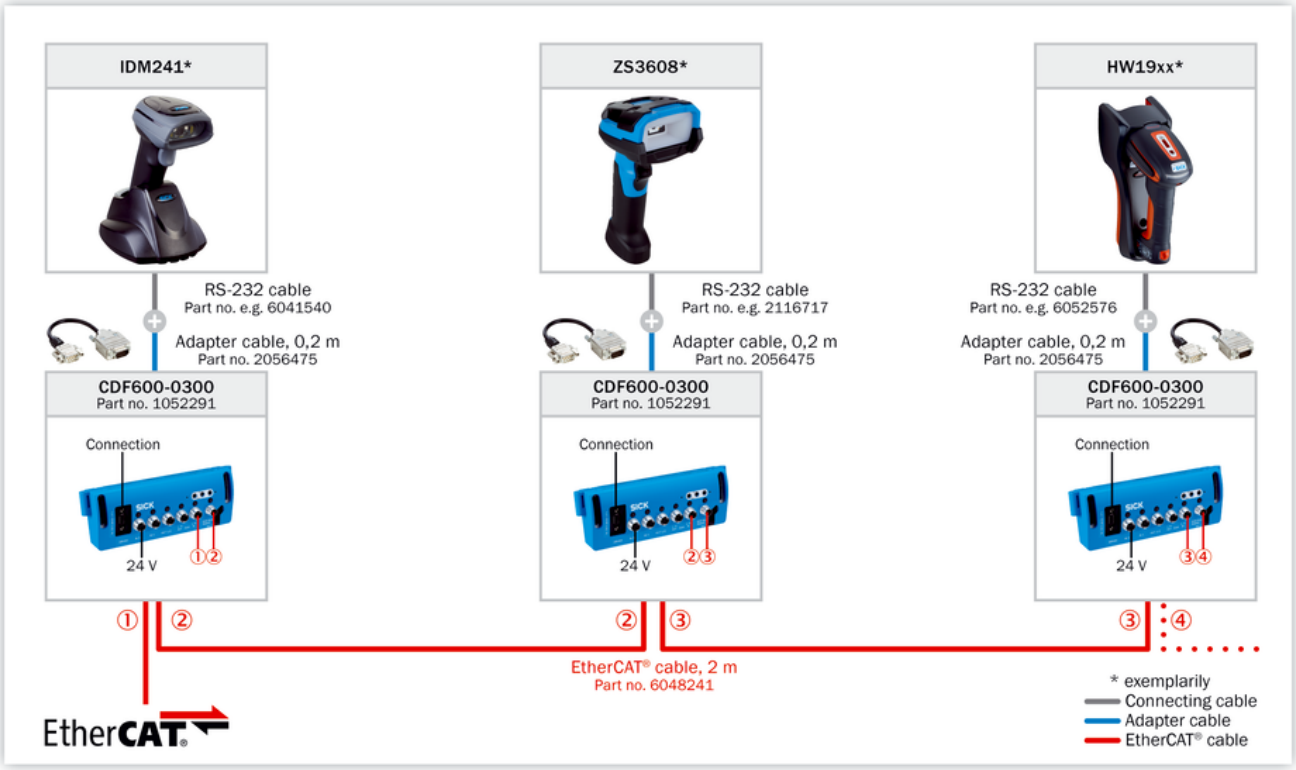
Connection diagram Ethernet TCP/IP

Ethernet TCP/IP



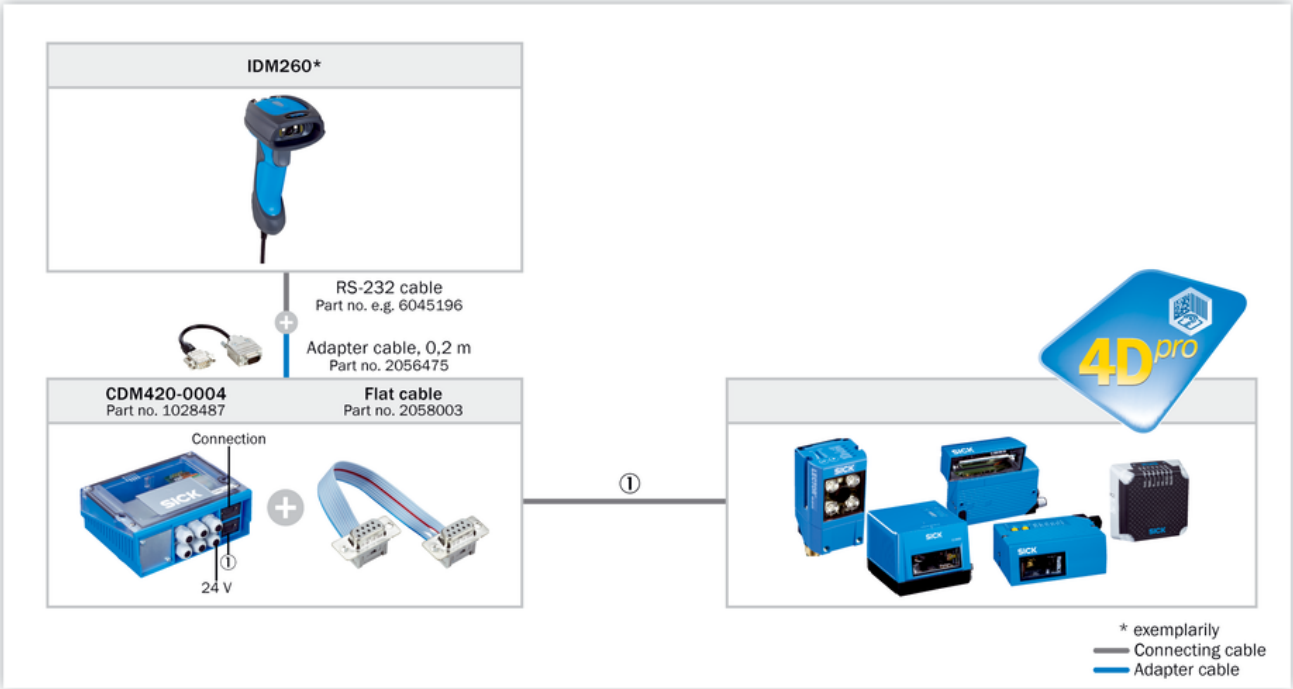
Connection diagram EtherCAT®

EtherCAT®



Connection diagram AUX looping

Looping-in via AUX



Selection Guide

*) For EtherNet/IP third party gateway is required from e.g. Comtrol or HMS (requires local sourcing).

Recommended accessories

Other models and accessories ➜ www.sick.com/IDM

	Brief description	Type	part no.
rechargeable batteries and base stations			
	• **Enclosure rating:** IP40 • **Description:** Wireless base station, supply voltage 5 V DC, current consumption max. 750 mA, interface: RS-232 True, USB	Base station	6080756
connectors and cables			
	• **Description:** USB, unshielded • **Connection type head A:** Male connector, USB-A • **Connection type head B:** Male connector, RJ50 • **Signal type:** USB • **Cable:** 2 m, straightened cable • **Note:** For keyboard wedge or USB Com Port Emulation	Connection cable	6081864
	• **Description:** RS-232, unshielded • **Connection type head A:** Female connector, D-Sub, 9-pin, straight • **Connection type head B:** Male connector, RJ50 • **Signal type:** RS-232 • **Cable:** 2 m, straightened cable • **Note:** Voltage via pin 9 or external power supply required	Connection cable	6081865

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com

SICK
Sensor Intelligence.