IDM261E-411S

IDM

MOBILE HANDHELD SCANNERS

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
IDM261E-411S	6086916

Included in delivery: Supercapacitor (1)

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

Detailed technical data

Features

Description	The cable-free IDM261E-411S incl. UltraCap™ supercapacitor serves as the batteryless voltage supply. The UltraCap™ supercapacitor is characterized by its long service life and thereby lowers the operating costs of the mobile handheld scanner. At the same time, it produces less electronic waste than battery-operated devices. The cable-free IDM261E-411S incl. UltraCap™ supercapacitor is not a hazardous good and is therefore unproblematic to ship. Moreover, the supercapacitor is easy to replace.
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	208 g, Incl. rechargeable battery (UltraCap™)
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	UltraCap™: Over 4,200 scans when fully charged
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
Permissible relative humidity	95 %, Non-condensing
Ambient light immunity	100,000 lx

General notes

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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.

Classifications

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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
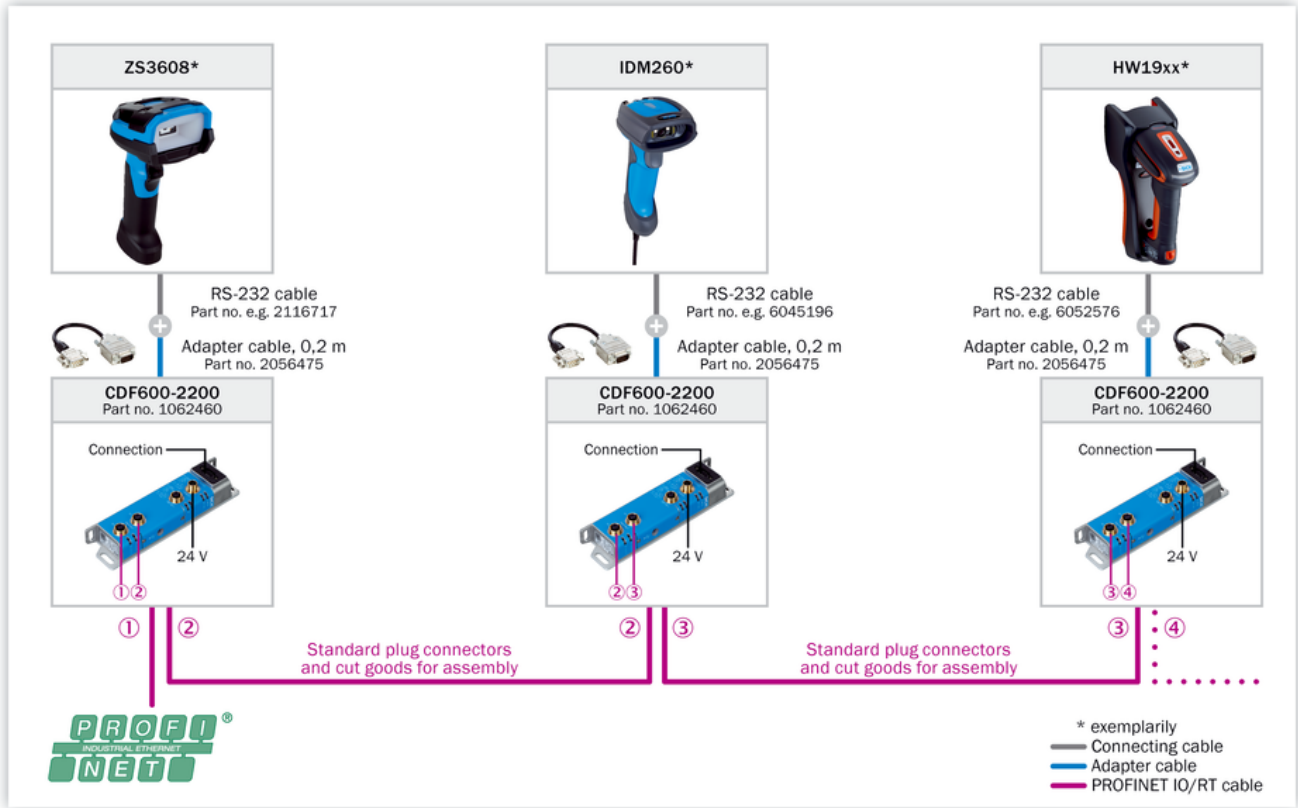
PROFIBUS DP

PROFIBUS DP
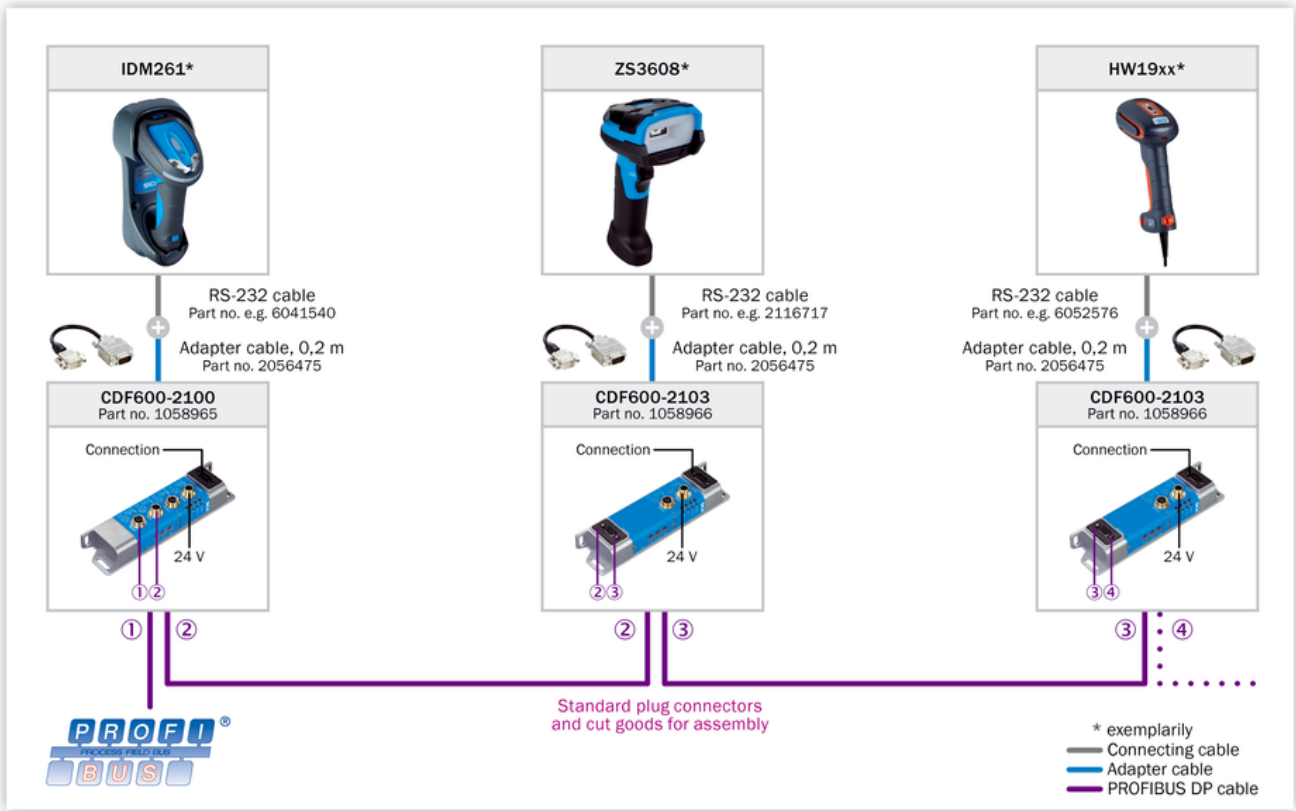
Ethernet TCP/IP

Ethernet TCP/IP
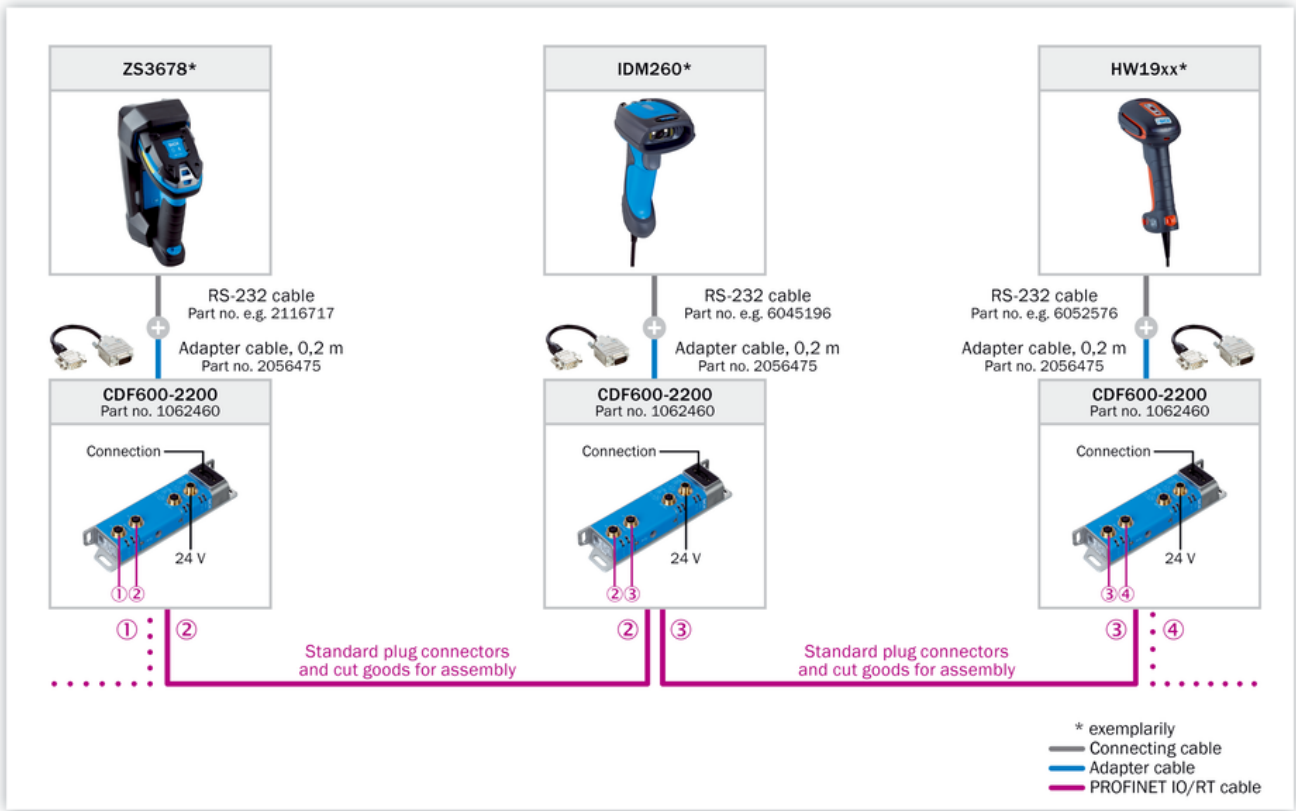
EtherCAT®

EtherCAT®
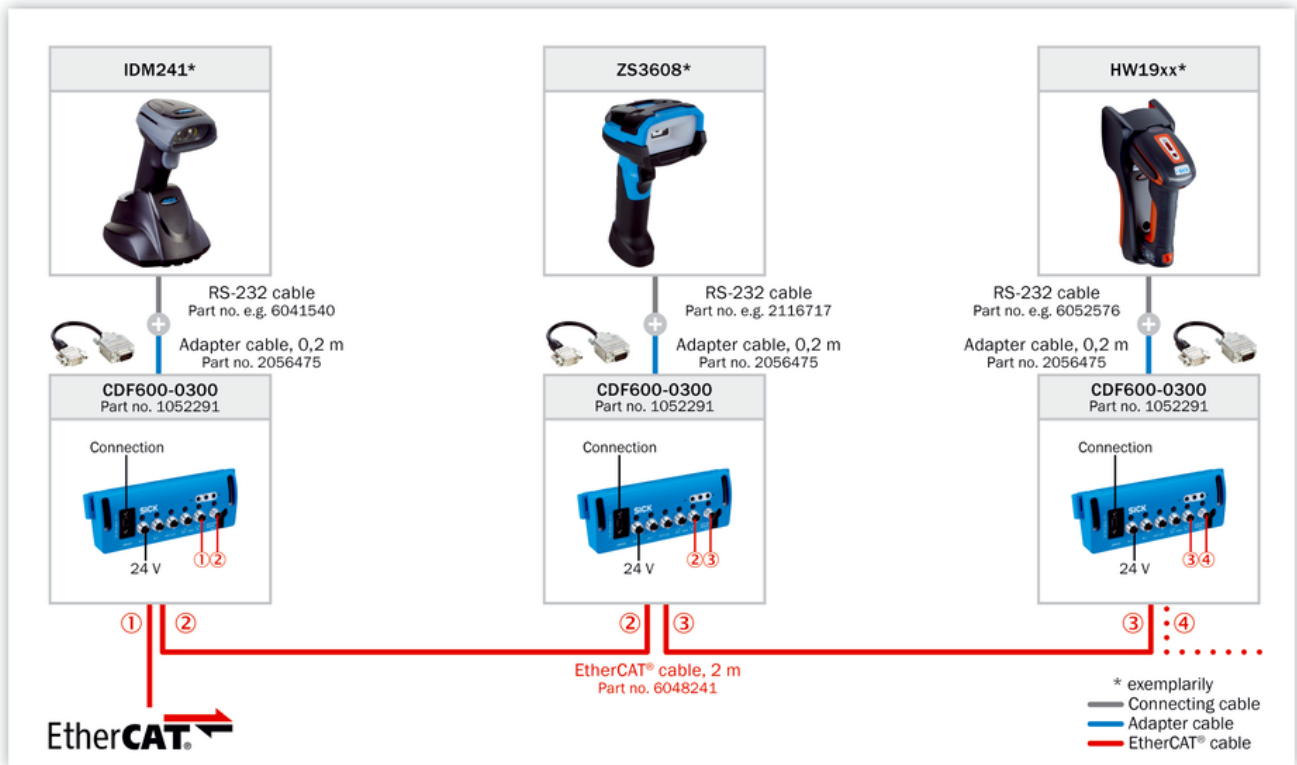
AUX looping

Looping-in via AUX

Selection Guide

Scanner ⊕	Connection cable (RS-232) ⊕	DC converter (24V/5V) ⊕	Modules	---→	Interface (network/products)

IDMx4x

Connection cable, 1.8 m, straight, RS-232, power on P9 6041540/ 6081865 (2 m)

IDMx6x

Connection cable (only IDMx61), 1.8 m, straight, RS-232, power on P9 6041540/ 6081865 (2 m)

Connection cable (only IDMx60), 1.8 m, straight, RS-232, power on P9 6045196/ 6081868 (2 m)

Adapter 2056475

CDF600-2200 1062460 → PROFINET / TCP/IP *)

CDF600-2100 1058965 → PROFIBUS

CDF600-0300 1052291 → EtherCAT

CDM420-0004 1028487/ CDM420-0007 1060324 ⊕ Flat cable 2058003 → e.g. Lector, CLV, RFU

HW19

Connection cable, 3 m, coiled, RS-232, power on P9 6052576

Zx36

Connection cable, 2.8 m, coiled, RS-232, power on P9 2116717

Connection cable 2111792

e.g. SIM1012 1098146

e.g. SIM2000 1081902

e.g. SIM1004 1098148

SICK APP SPACE

- TCP/IP
- IO-Link
- FTP
- OPC UA
- MQTT
- REST API

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

Recommended services

Additional services ➜ www.sick.com/IDM

	Type	Part no.
Extended warranty		
• **Product area:** Machine vision, LiDAR sensors, safety camera sensors, Safety laser scanners, Safety radar sensors, Radar sensors, Fixed mount barcode scanners, Image-based code readers, RFID, Mobile handheld scanners • **Range of services:** The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). • **Duration:** Five-year warranty from delivery date.	Extended warranty for a total of five years from delivery date	1680671

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:

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