

TECHNICAL DATASHEET



iSCAN X4B



Handheld Bluetooth barcode scanner for Zone 1/21 and Zone 2/22 hazardous areas

Use alongside a base station, smartphone, or tablet with wireless bluetooth link

Variants to read all standard 1D, 2D, and stacked PDF barcodes

ATEX and IECEx Zone 1/21 and 2/22 certified

RS232/RS422 or USB interface options

IP65 fully rugged

Lightweight and easy to handle with ergonomic grip

Visual, audio, and vibration feedback for user

High speed scanning, up to 500 scans per second

Wider scan line and long reading distance for easy use

Works effectively in bright sunlight, up to 100,000 lux

Variety of accessories available

www.extronics.com | info@extronics.com | +44 (0) 845 277 5000

X131510(1)

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Extronics Released

CODE TYPES



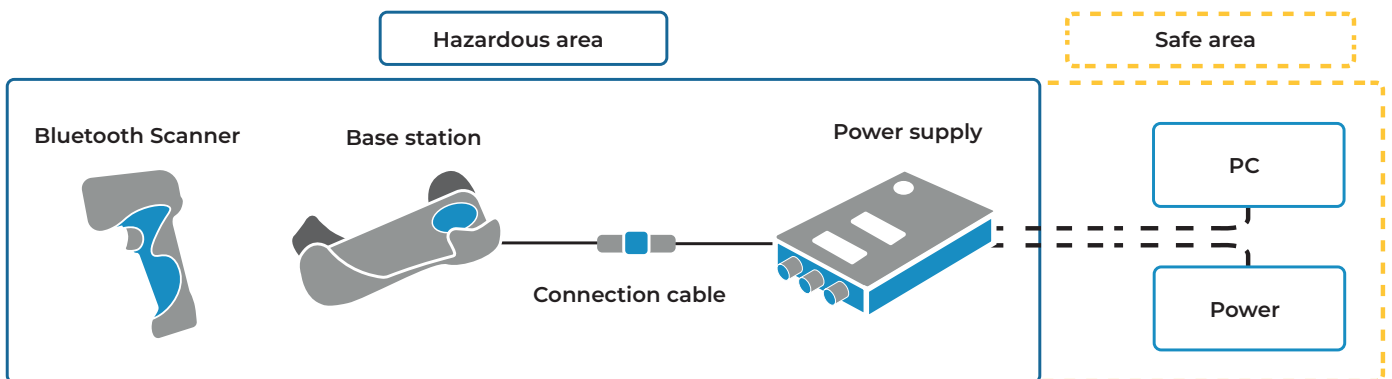
1D barcode types	Code 39, Code 39 Trioptic, Code 32, Code 93, Code 11, Codabar, Code 128, GS1-128 / EAN 128, UPC / EAN / JAN (with addition), MSI/Plessey, IATA, Interleaved 2 of 5, standard and industrial 2 of 5, Matrix 2 of 5, Telepen, GS1 British Post, Intelligent Mail, Jpan Post, Korean Post, Dutch KIX Post
Stacked PDF barcode types	PDF417, MicroPDF417, Code 49, Code 16K, Composite, Codablock F
2D barcode types	Data Matrix, QR Code, MicroQR-Code, Aztec, Maxicode

System examples

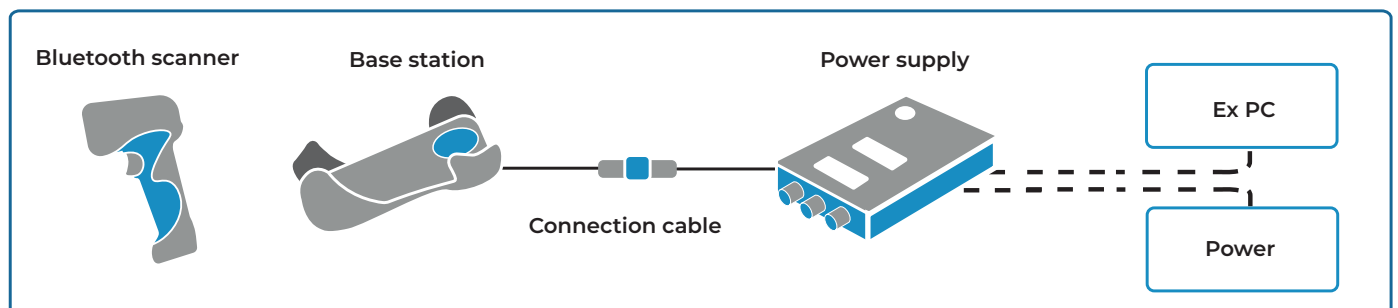
Zone 1/21 hazardous area charging:

These assemblies require a base station (iSCANX4B-1-EXBS), a power supply cable / module (iSCANPSx) and a connection cable between the two (iSCANX4B-CAB5, 6, 9 OR 10)

Power and Data cable going to the iSCANPSx is in the installers scope. Core size 0.2 to 2.5mm². For further technical information, refer to iSCANPS manual



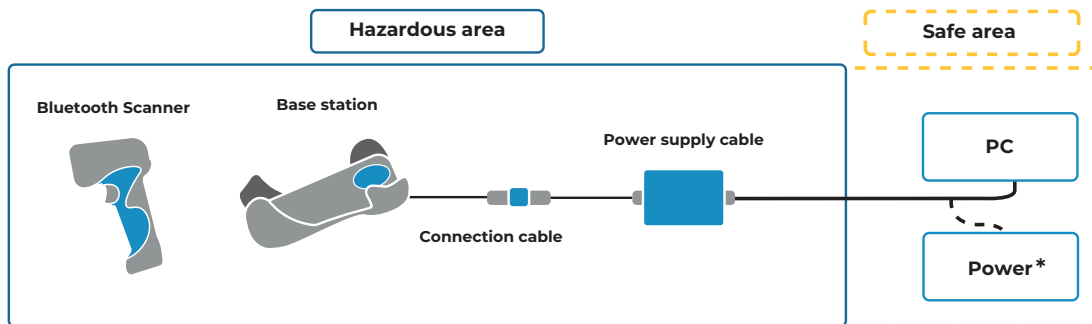
Hazardous area charging, data to safe area HMI.



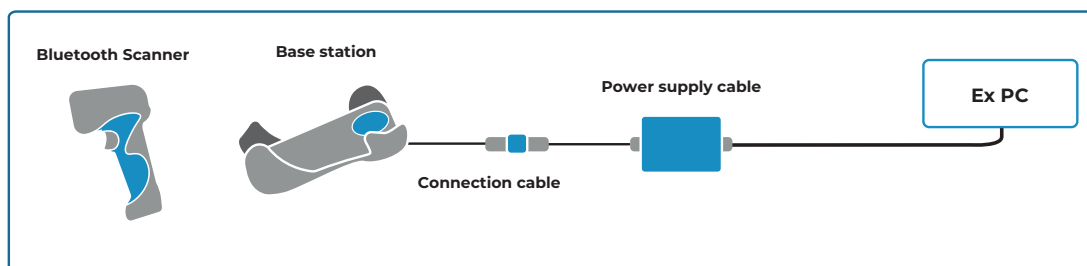
Hazardous area charging, data connection directly to hazardous area HMI.

Zone 2/22 Hazardous area charging:

These assemblies require a base station (iSCANX4B-2-EXBS), a power supply cable / module (iSCANPSCABx) and a connection cable between the two (iSCANX4B-CAB5, 6, 9 OR 10)



Hazardous area charging, data to safe area HMI *Power supply required for RS232 option



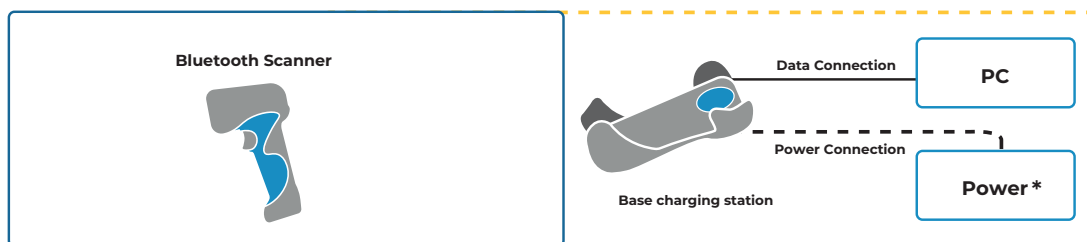
Hazardous area charging, data connection directly to hazardous area HMI

Safe area charging:

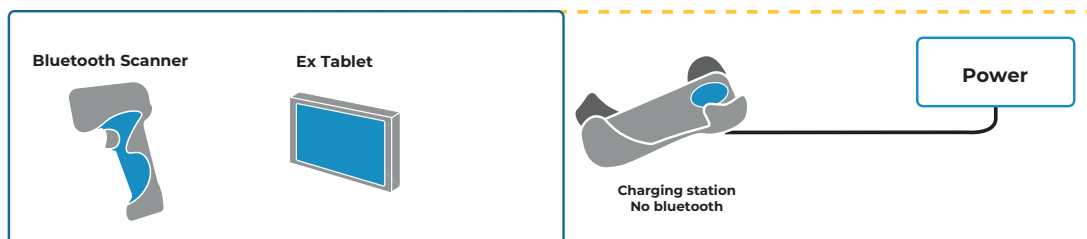
This assembly requires a non-Ex base or charging station

If connecting the base or charging station to a PC via USB, the USB cable (iSCANX4B-CAB3 or 4) can provide both data and power connection in one cable.

If connecting the base station to a PC via RS232 (iSCANX4B-CAB1 or 2), this can only support data. The base station will require additional power connection (iSCANX4B-BSP).



Safe area charging, USB or Serial data to HMI



Safe area charging, bluetooth data connection to hazardous area tablet

SPECIFICATION

	iSCAN X4B-1	iSCAN X4B-2
Certification	iSCAN X4B-1-P: II 2G Ex ib IIB T4 Gb II 2D Ex ib IIIC T135°C Db iSCAN X4B-1-Q: II 2G Ex ib op is IIB T4 Gb II 2D Ex ib op is IIIC T135°C D	II 3G Ex ic IIB T4 Gc II 3D Ex ic IIIC T135°C Dc
Dimensions	H185 x L104 x W76 mm	
Weight	260g (handset including battery)	
Ingress protection	IP65	
Ambient operating temperature	-20°C to +50°C	
Storage temperature	-30°C to +70°C	
Humidity	± 95%, non condensing	
Ambient light resistance	100,000 lux	
Bluetooth	V4.0, 2.402 ... 2.4830 GHz Wireless operating range up to 100 m (line of sight), batch function to expand wireless radius, up to seven scanners communicate with one base station	
Scanning frequency	iSCAN X4B-1-P: 500Hz iSCAN X4B-1-Q: 60Hz	iSCAN X4B-2-P: 500Hz iSCAN X4B-2-Q: 60Hz
Light Source	Visible red light 630 nm	
Reading distance	iSCAN X4B-1-P: 20 to 850mm iSCAN X4B-1-Q: 30 to 400mm	iSCAN X4B-2-P: 20 to 850mm iSCAN X4B-2-Q: 30 to 400mm
User feedback signals	2 LEDs (operation status and read feedback) Audio beeper Vibration	
Interface	RS232/RS422 or USB	RS232 or USB
Battery	Lithium ion battery, 3.6V, ≤ 1500mAh	Lithium ion battery, 3.6V, ≤ 2600mAh
Operating voltage	4.9V, supplied via iSCANPSI-4	5V, supplied via iSCANPSCABx
Required accessories	+ compatible base station (or charging station if Bluetooth connection is to an alternative device) + compatible cable to connect base station to power supply + compatible power supply <i>for details of options, please see Ordering Information</i>	

ORDERING INFORMATION



ISCAN X4B-1 ZONE 1/21 SYSTEM

Handset

iSCANX4B-1-P

iSCAN X4B, Zone 1 Bluetooth handheld scanner. Reads 1D and stacked PDF barcodes. Battery included

iSCANX4B-1-Q

iSCAN X4B, Zone 1 Bluetooth handheld scanner. Reads 2D, 1D and stacked PDF barcodes. Battery included

HAZARDOUS AREA CHARGING

Base Station

iSCANX4B-1-EXBS

Hazardous Area Base Station for Zone 1/21 iSCAN X4B handsets

Connection Cable

iSCANX4B-CAB5

iSCAN X4B Hazardous Area base station connection cable, RS232, 2 m

iSCANX4B-CAB6

iSCAN X4B Hazardous Area base station connection cable, RS232, spiral, 3.8 m

iSCANX4B-CAB9

iSCAN X4B Hazardous Area base station connection cable, USB, 2 m

iSCANX4B-CAB10

iSCAN X4B Hazardous Area base station connection cable, USB, spiral, 3.8 m

Power Supply

iSCANPS1

iSCAN X4 Zone 1/21 Power supply module, 24VDC, RS232

iSCANPS2

iSCAN X4, Zone 1/21, Power supply module, 24VDC, USB

iSCANPS3

iSCAN X4, Zone 1/21, Power supply module, 230VAC, RS232

iSCANPS4

iSCAN X4, Zone 1/21, Power supply module, 230VAC, USB

SAFE AREA CHARGING

Base Station

iSCANX4B-1-BS

Safe Area Base Station for Zone 1/21 iSCAN X4B handsets

iSCANX4B-1-CS

Safe Area Charging Station (No Bluetooth) for Zone 1/21 iSCAN X4B handsets

Connection Cable

iSCANX4B-CAB1

iSCAN X4B Safe area base station connection cable, RS232, 2 m

iSCANX4B-CAB2

iSCAN X4B Safe area base station connection cable, RS232, spiral, 3.8 m

iSCANX4B-CAB3

iSCAN X4B Safe area base station connection cable, USB 2 m

iSCANX4B-CAB4

iSCAN X4B Safe area base station connection cable, USB, spiral, 3.8 m

Power Supply

iSCANX4B-BSP

Power supply for Safe Area base or charging station, DC 5V
not required when using the iSCANX4B-1-BS with USB

ORDERING INFORMATION



ISCAN X4B-2 ZONE 2/22 SYSTEM

Handset

iSCANX4B-2-P

iSCAN X4B, Zone 2/22 Bluetooth handheld scanner. Reads 1D and stacked PDF barcodes. Battery included

iSCANX4B-2-Q

iSCAN X4B, Zone 2/22 Bluetooth handheld scanner. Reads 2D, 1D and stacked PDF barcodes. Battery included

HAZARDOUS AREA CHARGING

Base Station

iSCANX4B-2-EXBS

Hazardous Area Base Station for Zone 2/22 iSCAN X4B handsets

Connection Cable

iSCANX4B-CAB5

iSCAN X4B Hazardous Area base station connection cable, RS232, 2 m

iSCANX4B-CAB6

iSCAN X4B Hazardous Area base station connection cable, RS232, spiral, 3.8 m

iSCANX4B-CAB9

iSCAN X4B Hazardous Area base station connection cable, USB, 2 m

iSCANX4B-CAB10

iSCAN X4B Hazardous Area base station connection cable, USB, spiral, 3.8 m

Power Supply Cable

iSCANPSCABR

iSCAN X4 Zone 2/22 Power supply cable 3m, DC 24V (8-30V), RS232

iSCANPSCABU

iSCAN X4 Zone 2/22 Power supply cable 3m, DC 5V, USB (supply from PC)

SAFE AREA CHARGING

Base Station

iSCANX4B-2-BS

Safe Area Base Station for Zone 2/22 iSCAN X4B handsets

iSCANX4B-2-CS

Safe Area Charging Station (No Bluetooth) for Zone 2/22 iSCAN X4B handsets

Connection Cable

iSCANX4B-CAB1

iSCAN X4B Safe area base station connection cable, RS232, 2 m

iSCANX4B-CAB2

iSCAN X4B Safe area base station connection cable, RS232, spiral, 3.8 m

iSCANX4B-CAB3

iSCAN X4B Safe area base station connection cable, USB 2 m

iSCANX4B-CAB4

iSCAN X4B Safe area base station connection cable, USB, spiral, 3.8 m

Power Supply

iSCANX4B-BSP

Power supply for Safe Area base or charging station, DC 5V
not required when using the iSCANX4B-1-BS with USB

ORDERING INFORMATION



ACCESSORIES

Batteries

iSCANX4B-1-BATT

Spare lithium ion battery for iSCAN X4B-1, Zone 1/21

iSCANX4B-2-BATT

Spare lithium ion battery for iSCAN X4B-2, Zone 2/22

Stands

ISCANSTRI

Tripod stand for all iSCAN X4 variants

ISCANSTAB

Tabletop stand for all iSCAN X4 variants

Extension Cables

iSCANCC1

RS232 Extension cable for iSCAN X4C Handsets or iSCAN X4B Ex Base Stations, 6m

iSCANCC2

RS232 Extension cable for iSCAN X4C Handsets or iSCAN X4B Ex Base Stations, spiral, 4.5m

*Please note that these extension cables may only be used with:
iSCANX4B-CAB1, 2, 5, or 6 options (RS232)*