MS852B+

Bluetooth® High Performance 2D Imager Scanner

Increase Productivity with Superior Industrial Barcode Scanner

Specially built for challenging work environment, the MS852B+ is built in megapixel barcode sensor that enhances the maximum compatibility to capture most 1D / 2D barcodes on mobile screens, even damaged or poorly printed barcodes and special barcode symbologies such as OCR on passport, Dot codes on tires or cigarette package, and Digimarc barcode on special retail packages. With its advanced barcode technology and durable design, the MS852B+ handheld scanner is a highly reliable tool to increase productivity and efficiency.

Wireless for Flexibility

Moreover, the MS852B+ supports Bluetooth® dual mode technology (Bluetooth® LE V4.2 & Bluetooth® 2.1+EDR, Class 1) to give you the freedom and bring your business the flexibility. It is compatible with any smartphone, tablet, or computer–the MS852B+ pairs easily to any mobile device or PC. Besides, it allows users to transmit data to the host from up to 100 meters from the base.

User-Friendly with Cradle Accessory

This MS852B+ wireless scanner has a cradle accessory that supports auto Bluetooth® pairing and it has the ability to switch between trigger or presentation mode automatically. This cradle is also available to be connected with 3 scanners at the same time and provides three-way cable management slots for more convenient cable installation. When it is out of range reading in Auto Mode, the scanned data will be saved into the MS852B+ memory buffer automatically and transmit to the host when back to the wireless coverage. Moreover, MS852B+ can be set to batch mode reading, all the scanned data will be stored in a memory buffer and upload to your devices at your own convenience.

Compact but Durable

Built for all day use, the MS852B+ is built in a lithium-ion battery can be replaced easily. It has a long life battery life up to 25 hours per battery charge. While sustaining a 2.1 meter drop to concrete, MS852B+ incorporated with IP42 rugged design for protection against dust and moisture. Moreover, the built-in long lifecycle trigger of 10 million times guarantees a continuous productivity for best reliability. This scanner can be used in the most practical way depending on the scanning task in various solutions in retail, warehousing, manufacturing, logistics.

Features

- Megapixel barcode sensor that enhances the maximum compatibility
- Support most 1D / 2D barcode on mobile screens, even damaged or poorly printed barcodes
- Support OCR, Dot codes, and Digimarc barcodes
- Support Bluetooth® dual mode technology (Bluetooth® LE V4.2 & Bluetooth® 2.1+EDR, Class 1)
- Wireless transmission range up to 100m in the line of open sight.
- Long battery life up to 25 hours per a fully charged battery
- Durable design : IP42 and 2.1m drop spec
- Auto Bluetooth pairing / auto switch between trigger & presentation mode with cradle

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MS852B+
Specifications

Optical & Performance

Sensor	1280 X 800 global shutter
Aiming Element	Red laser
Illumination	White LED (exempt risk group)
Imager Field of View	100,000 Lux (Sunlight)
Skew Angle	±60°
Pitch Angle Sensor	±60°
Roll Angle	0 - 360°
Optical Resolution	1D 3mil/ 0.075mm
Printing Contrast Scale	Minimum 20%

Depth of Field (DOF PCS=80%)

SYMBOLOGY / X-DIM TYPICAL RANGE* Near Far
13 mil UPC 1.34 in / 3.4 cm 22.5 in / 57.3 cm
5 mil Code 39 2.76 in / 7 cm 11.85 in / 30.1 cm
10 mil Code 39 1.14 in / 2.9 cm 20.3 in / 51.7 cm
20 mil Code 39 1.38 in / 3.5 cm 31.5 in / 80 cm
15 mil Code 128 1.34 in / 3.4 cm 25.6 in / 65 cm
10 mil DM 2.84 in / 7.2 cm 11.7 in / 29.7 cm
6,7 mil PDF417 3.3 in / 8.4 cm 9.6 in / 24.4 cm
15 mil QR Code 1.3 in / 3.3 cm 15.35 in / 39 cm

Communication

Radio	Bluetooth® LE V4.2
	Bluetooth® 2.1+EDR, Class 1
	Dual mode
Wireless Coverage	100m (line of sight)
Interface/ Profile	Serial Port and HID profiles
Host Interface supported	USB, RS232
Memory Buffer	7MB for batch mode / 20KB for auto mode

Mechanical

Scanner Dimension	87.8 L x 71.6 W x 177.7 H (mm)
Scanner Weight	213g (without cradle)
Trigger Switch Life	10 million times
Cradle Dimension	120.6 L x 88.7 W x 86.0 H (mm)

Symbologies

1D	Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended Coupon Code, Coupon GS1 Code 32(PARAF),
2D	EAN-UCC Emulation, GS1 Data Bar, TLC39 2D Stacked: Codablock A, Codablock F, PDF417, MicroPDF417 2D Matrix: Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible (Han Xin), Grid Matrix, Dot Code Postal:Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet
OCR Barcodes	Support OCR barcodes

Electrical

Indicator	LED & Beeper & Vibrator
Battery Type	Rechargeable and replaceable battery pack.
Battery Capacity	2850mAh
Battery Charging time	<6.5 hours
Operating Time	>25 hours

Environmental

ESD Protection	Functional after 8K Contact and 15K Air
Mechanical Shock	2.1M onto concrete (scanner only)
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	95% non-condensing
IP Rating	IP42

Accessories

Cradle
Interface cable
Battery pack

Package Contents

MS852B+ Scanner with battery
Cradle
Interface cable

Regulatory Approvals

CE, FCC, BSMI, VCCI, NCC, TELEC, BQB

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