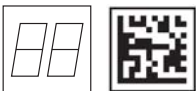




IT 4620

2D-code hand-held scanner with Bluetooth data transmission



- Hand-held scanner for 2D codes and bar codes
- Transmission to ST 2020 base station via Bluetooth standard V1.2
- Large reading field for the detection of high-contrast codes
- Robust trigger button
- Built-in decoder
- Read-display
- RS 232, USB and PS/2 interface
- Operating temperature from 0 through 50°C



We reserve the right to make changes • db_IT4620_e.fm

Accessories

- **TTL RS 232 cable/ext IT 4xxx**
Part No. 501 04442
- **PS/2 cable for IT 4xxx**
Part No. 501 03409
- **USB cable for IT 4xxx**
Part No. 501 03404
- **Power supply unit for IT 4x2x**
Part No. 501 03989

Dimensioned drawing

Electrical connection

for TTL RS 232 cable / ext.

9-pin Sub-D	Signal	Connection for power supply unit	IT 4620 RJ41
SH	Shield	SH	2
2	TXD		6
3	RXD		5
5	GND	1	4
7	CTS		9
8	RTS		8
	5VDC	2	7

for USB cable

USB type A	Signal	IT 4620 RJ41
1	5VDC	9
2	Data -	10
3	Data +	2
4	GND	4

for PS/2 cable

Mini DIN connector	Mini DIN socket	Signal	IT 4620 RJ41
1	-	PC Data	6
2	-	NC	
3	3	GND	4
4	4	5VDC	7
5	-	PC Clock	5
6	6	NC	
-	1	KB Data	8
-	5	KB Clock	9



Specifications

Electrical data	IT 4620	ST 2020
Operating voltage U_B	3.6VDC internal battery	4.5 ... 12VDC
Power consumption		max. 9.9W @ 12VDC
Li-ion battery		
Capacity	2.000mAh	
Max. number of scans	57,000	
Max. operating time	16h at 1 scan/s	
Charging time at 9VDC	4h for complete charge following complete discharge	
RF data transmission		
Frequency	2.4 ... 2.4835GHz (ISM band)	
	Frequency hopping, Bluetooth® V1.2, Class 2	
Typ. operating range	10m	
Transmission speed	720kBit/s	
Interfaces		
Interface type	RS 232, PS/2 and USB	
Trigger	via button or serial command	
Code types		
2D codes	Data Matrix ECC 200, MaxiCode, PDF417, MicroPDF, QR Code, Aztec, Aztec Mesas, Code 49, EAN/UCC Composite	
Bar codes	2/5 Interleaved, Code 39, Code 128, Code 93, Codabar, UPC/EAN, RSS, Codablock	
OCR	OCR-A, OCR-B	
Optical data		
Optical system	high-resolution pixel array 640x480	
Contrast	45% (black/white)	
Light source	integrated diffuse LED 626nm	
Read distance	36 ... 315mm	
Read direction	omnidirectional, various tilt and rotational angles up to 45°	
Mechanical data	IT 4620	ST 2020
Housing	UL94V0 grade	
Weight	255g	250g (without cable)
Dimensions	157x135x81mm	79x142x109mm
Shock resistance	50 falls from a height of 1.8m	50 falls from a height of 1m
Environmental data		
Ambient temp. (operation)	0°C ... +50°C	0°C ... +50°C
Ambient temp. (storage)	-20°C ... +35°C	-40°C ... +60°C
Relative air humidity	0 ... 95% (non-condensing)	0 ... 95% (non-condensing)
Protection class	IP 41	IP 43

Reading field

	Module or cell	from	to
IT 4620 SR			
Bar codes	8mil / 0.20mm	74mm	178mm
UPC bar code	13mil / 0.33mm	48mm	302mm
PDF 417 Code	6.6mil / 0.17mm	99mm	145mm
	10mil / 0.25mm	64mm	213mm
Data Matrix Code	15mil / 0.38mm	79mm	150mm
Maxi Code	35mil / 0.89mm	36mm	315mm
IT 4620 SF			
Bar codes	7.5mil / 0.19mm	48mm	150mm
UPC bar code	13mil / 0.33mm	43mm	213mm
PDF 417 Code	6.6mil / 0.17mm	56mm	137mm
	10mil / 0.25mm	36mm	178mm
Data Matrix Code	15mil / 0.38mm	43mm	137mm
Maxi Code	15mil / 0.38mm	43mm	137mm

Order guide

2D-code hand-held scanner for high-contrast Data Matrix codes (standard range)	Part No.
IT 4620 SR OC1C IT 4620 SR with RS 232/USB/PS/2 interface	501 03988
2D-code hand-held scanner for high-contrast Data Matrix codes (special focus for small codes)	Part No.
IT 4620 SF OC1C IT 4620 SF with RS 232/USB/PS/2 interface	501 03987
Base station for Bluetooth transmission	Part No.
ST 2020 ST 2020 with RS 232/USB/PS/2 interface (without cable)	501 03990

Tables

Diagrams

Remarks

Ergonomically shaped hand-held scanner with integrated decoder for high-contrast codes.

Data transmission via configurable RS 232 interface.

Or keyboard-wedge operation via PS/2 or USB interface.

For a functional unit, an IT 4620 hand-held scanner and a ST 2020 base station as well as a power supply unit and corresponding cable must be ordered.



Bluetooth is a trademark owned by Bluetooth SIG, Inc., U.S.A. and licensed to hand-held products