

## Technical data sheet

### Wireless mobile 2D-code reader

Part no.: 50144031

IT 1472g-2D-2 USB-KIT

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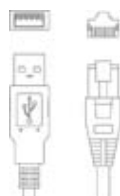


For illustration purposes only



## Set consists of

| Quantity | Part no. | Designation       | Article               | Description  |
|----------|----------|-------------------|-----------------------|--|
| 1        | 50143595 | Base IT 1472g     | Base station          | Interface: USB, PS/2, RS 232<br>Bluetooth range: Class 2<br>Bluetooth version: 4.2<br>Connection 1: RJ41<br>Connection 2: Jack socket<br>Connection 3: Bluetooth |
| 1        | 50105384 | Battery IT-series | Battery               | Supply voltage: 3.7 V, DC<br>Battery technology: Lilon<br>Battery storage capacity: 2.4 A·h  |
| 1        | 50114521 | KB USB-1 IT190x   | Interconnection cable | Suitable for interface: USB<br>Connection 1: RJ41<br>Connection 2: USB<br>Shielded: Yes<br>Cable length: 3,000 mm<br>Sheathing material: PVC                     |



## Technical data

### Basic data

Series IT147xg

### Read data

|                      |                             |
|----------------------|-----------------------------|
| Code types, readable | 2/5 Interleaved             |
|                      | Aztec                       |
|                      | Codabar                     |
|                      | Codablock                   |
|                      | Code 128                    |
|                      | Code 39                     |
|                      | Code 93                     |
|                      | Data Matrix Code            |
|                      | DotCode                     |
|                      | EAN 8/13                    |
|                      | EAN Addendum                |
|                      | GS1 Databar                 |
|                      | GS1 Databar Expanded        |
|                      | GS1 Databar Limited         |
|                      | GS1 Databar Omnidirectional |
|                      | GS1 Databar Stacked         |
|                      | GS1 Databar Truncated       |
|                      | Maxicode                    |
|                      | Micro PDF                   |
|                      | Micro QR                    |
|                      | PDF417                      |
|                      | QR code                     |
|                      | UPC                         |

### Optical data

|                               |                    |
|-------------------------------|--------------------|
| Reading distance              | 5 ... 400 mm       |
| Light source                  | LED, Red           |
| LED group                     | 1                  |
| Camera resolution, horizontal | 1,040 px           |
| Camera resolution, vertical   | 720 px             |
| Bar code contrast (PCS)       | 35 %               |
| Modulus size                  | 0.127 ... 0.508 mm |

### Electrical data

#### Performance data

|                          |           |
|--------------------------|-----------|
| Supply voltage $U_B$     | 3.7 V, DC |
| Power consumption, max.  | 1.8 W     |
| Battery technology       | Lilon     |
| Battery storage capacity | 2.4 A·h   |

### Interface

|               |                   |
|---------------|-------------------|
| Type          | PS/2, RS 232, USB |
| <b>RS 232</b> |                   |
| Function      | Process           |
| <b>USB</b>    |                   |
| Function      | Process           |

### Connection

|                     |           |
|---------------------|-----------|
| Bluetooth range     | Class 2   |
| Bluetooth version   | 4.2       |
| <b>Connection 1</b> |           |
| Type of connection  | Bluetooth |

### Mechanical data

|                       |                        |
|-----------------------|------------------------|
| Dimension (W x H x L) | 173 mm x 82 mm x 62 mm |
| Housing material      | Plastic                |
| Plastic housing       | UL 94-V0               |
| Net weight            | 210 g                  |

## Technical data

### Environmental data

|                                    |                |
|------------------------------------|----------------|
| Ambient temperature, operation     | 0 ... 50 °C    |
| Ambient temperature, storage       | -40 ... 70 °C  |
| Relative humidity (non-condensing) | 0 ... 95 %     |
| Drop height                        | 1.8 m          |
| Measurements relative to           | Concrete floor |

### Certifications

|                      |       |
|----------------------|-------|
| Degree of protection | IP 42 |
|----------------------|-------|

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 84719000 |
| ECLASS 5.1.4          | 27280103 |
| ECLASS 8.0            | 27280103 |
| ECLASS 9.0            | 27280103 |
| ECLASS 10.0           | 27280103 |
| ECLASS 11.0           | 27280103 |
| ECLASS 12.0           | 27280103 |
| ECLASS 13.0           | 27280103 |
| ECLASS 14.0           | 27280103 |
| ECLASS 15.0           | 27280103 |
| ECLASS 16.0           | 27280103 |
| ETIM 5.0              | EC002550 |
| ETIM 6.0              | EC002550 |
| ETIM 7.0              | EC002999 |
| ETIM 8.0              | EC002999 |
| ETIM 9.0              | EC002999 |
| ETIM 10.0             | EC002999 |
| UNSPSC 26.08          | 43211701 |

## Electrical connection

### Connection 1

|                    |                         |
|--------------------|-------------------------|
| Function           | Configuration interface |
|                    | Data interface          |
| Type of connection | Bluetooth               |

## Diagrams

### Typical reading behavior

|                  | A [mil] | B [mm] | C [mm] | D [mm] |
|------------------|---------|--------|--------|--------|
| Code 39          | 5       | 0,127  | 20     | 205    |
| UPC/EAN 13       | 13      | 0,33   | 18     | 400    |
| PDF 417          | 6,7     | 0,169  | 15     | 185    |
| Data Matrix Code | 10      | 0,254  | 10     | 165    |
| QR Code          | 20      | 0,508  | 5      | 325    |

A Module size [mil]  
 B Modulus size [mm]  
 C From [mm]


D To [mm]  
 ATTENTION Please observe the note below  
 ! regarding the reading distances.

## Operation and display


| LED | Display               | Meaning             |
|-----|-----------------------|---------------------|
| 1   | Red, continuous light | Low battery level   |
|     | Green, 1x flashing    | Reading successful  |
|     | Red, flashing         | Communication error |

## Accessories

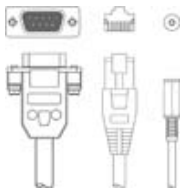
### Connection technology - Connection unit

|  | Part no. | Designation              | Article                 | Description   |
|--|----------|--------------------------|-------------------------|---|
|  | 50112891 | MA 248i Profinet Gateway | Modular connection unit | Supply voltage: 18 ... 30 V, DC<br>Current consumption, max.: 300 mA<br>Interface: RS 232, PROFINET<br>Connections: 6 Piece(s)<br>Degree of protection: IP 65 |


### Connection technology - Interconnection cables

|   | Part no. | Designation   | Article               | Description  |
|---|----------|---------------|-----------------------|--|
|  | 50113397 | KB JST-HS-300 | Interconnection cable | Application: Chemical resistant<br>Suitable for interface: RS 232<br>Connection 1: JST ZHR connector<br>Connection 2: Sub-D, Axial, Male, 9 -pin<br>Shielded: Yes<br>Cable length: 300 mm<br>Sheathing material: PUR |

### Connection technology - Y distribution cables

|  | Part no. | Designation     | Article               | Description  |
|--|----------|-----------------|-----------------------|--|
|  | 50114517 | KB 232-1 IT190x | Interconnection cable | Suitable for interface: RS 232, TTL<br>Connection 1: RJ41<br>Connection 2: Sub-D, Axial, Female, 9 -pin<br>Connection 3: Connector, Pluggable, Axial, Female, 2 -pin<br>Shielded: Yes<br>Cable length: 3,000 mm<br>Sheathing material: PVC |

### Power supply units

|   | Part no.   | Designation           | Article           | Description  |
|---|------------|-----------------------|-------------------|--|
|  | 50114525 * | NT f. IT 1900+Base-EU | Power supply unit | Type of power supply unit: Plug-in power supply unit<br>Output: 5 V DC, 1 A<br>Input: 110 ... 240 V AC, 50 ... 60 Hz |

\* Necessary accessories, please order separately

## Accessories

### Note



🔗 A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.