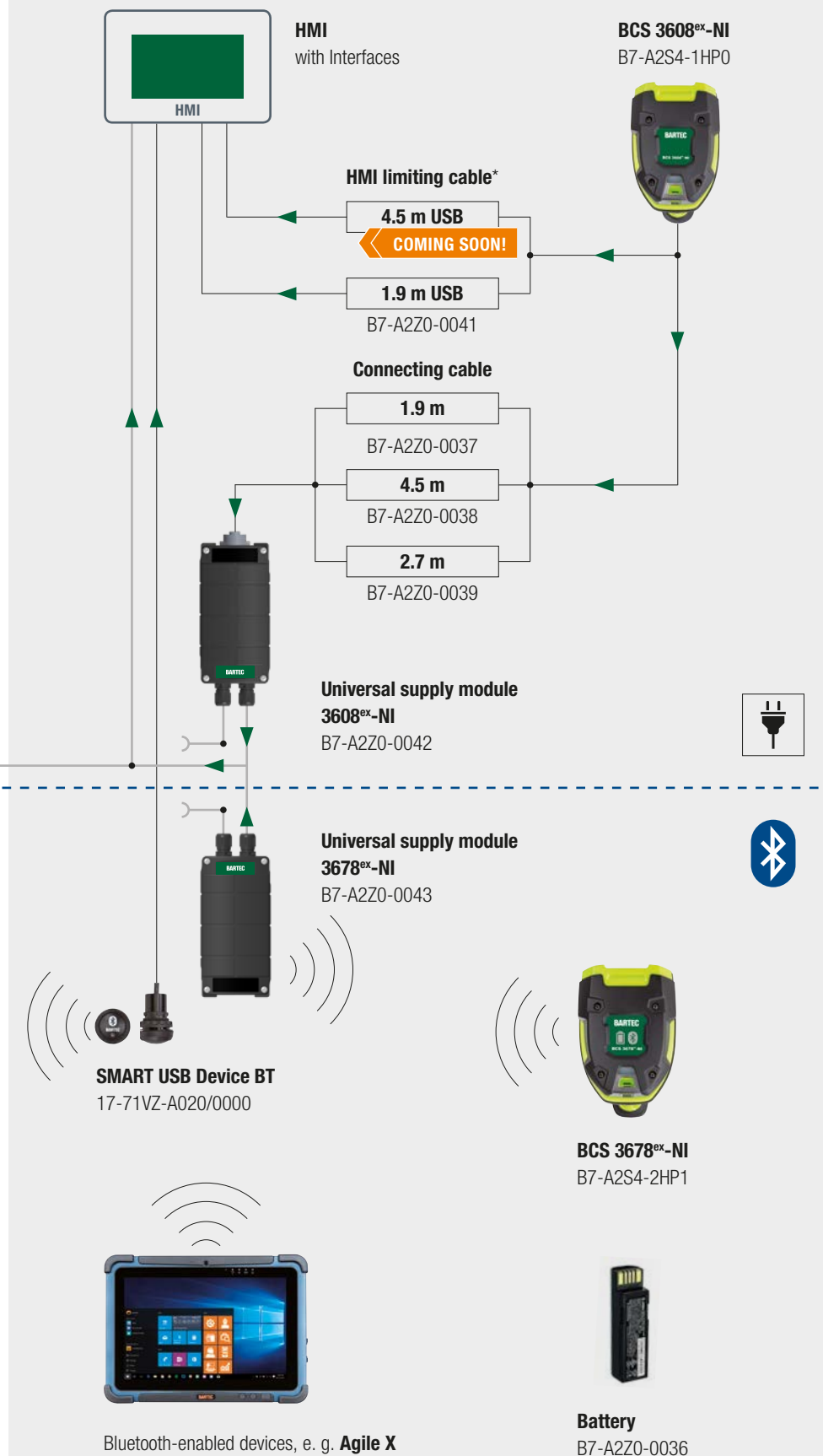
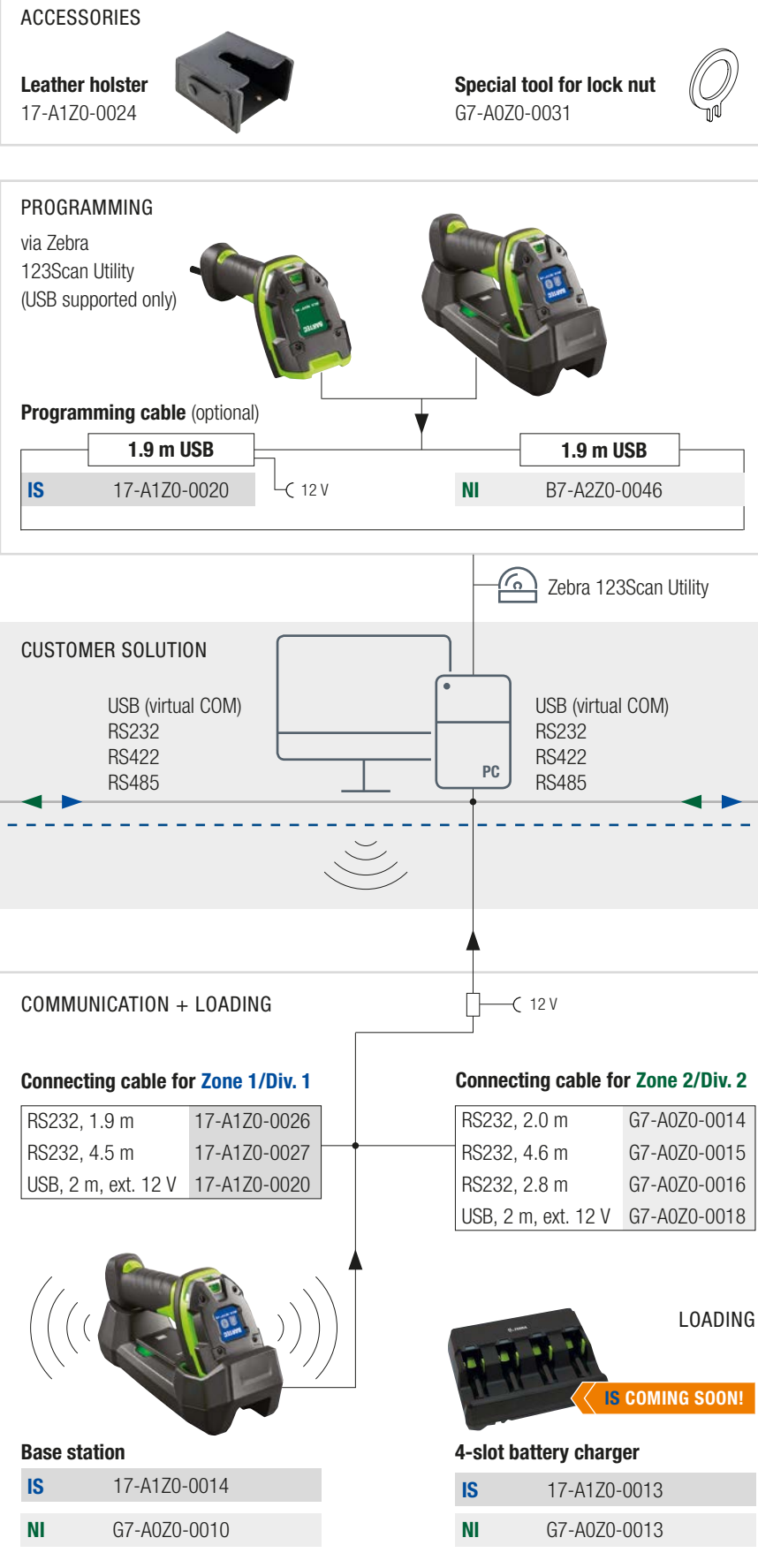
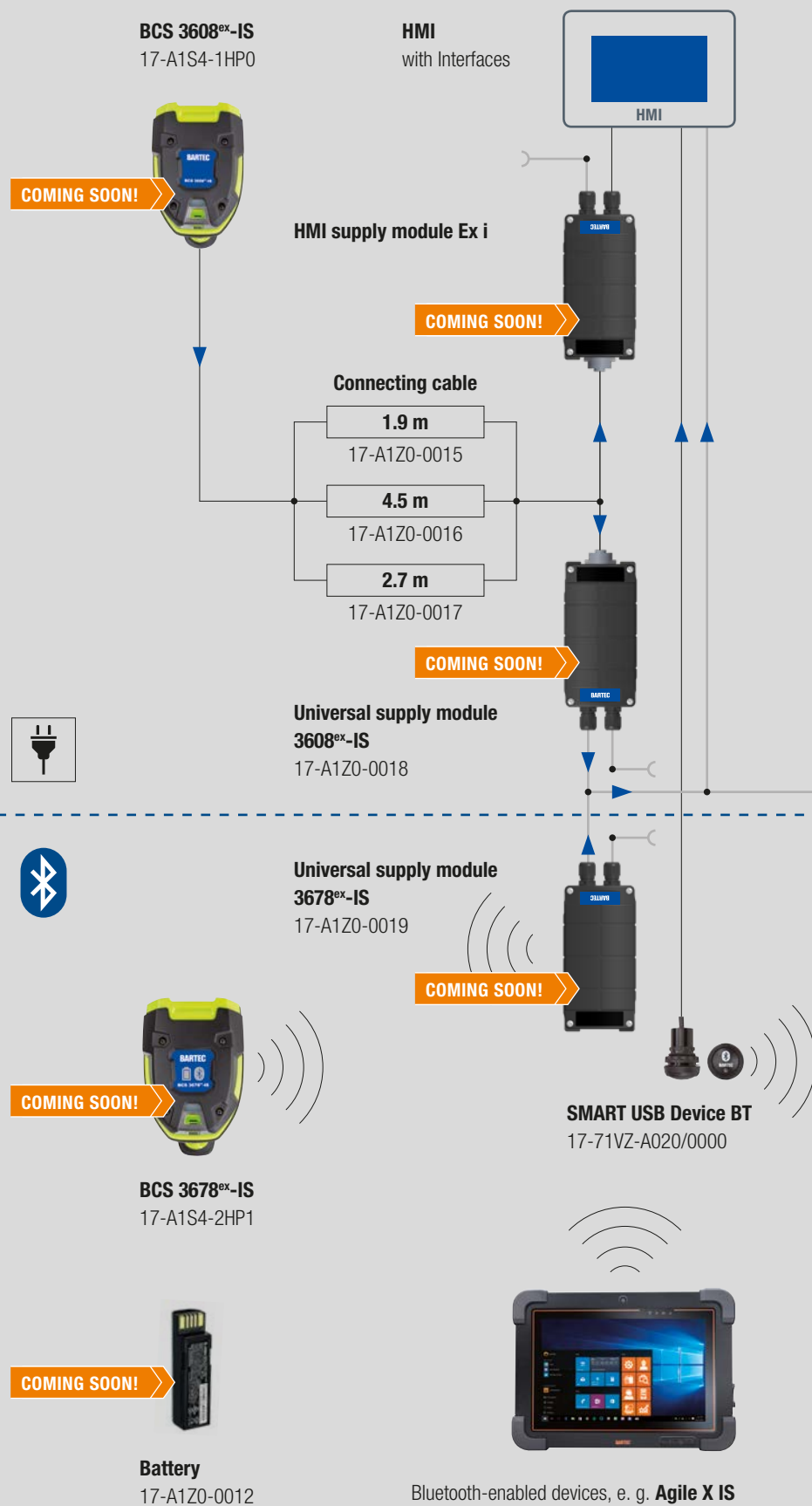




Hand-held scanner BCS 3600^{ex} series

Data sheets





The latest generation of rugged explosion-protected hand-held scanners of the BCS 36x8^{ex} series offers outstanding performance for incomparable capture of 1D/2D barcodes, photos, documents and more. The devices are based on the ZEBRA “3600 Ultra-Rugged Series Handheld Scanners” series and are now also available from BARTEC in an explosion-protected version. They are available for ATEX/IECEx Zone 1/21 and Zone 2/22 and UL Division 1 and 2. Further local approvals are available on request. The series consists of a corded (BCS 3608^{ex}) and cordless (BCS 3678^{ex}) Bluetooth version, which are used in the toughest environments in the world – in warehouses and production halls. These scanners don't just enable every 1D or 2D barcode to be scanned from a distance of up to 2.1 m, but also capture a diverse amount of business information to rationalise everyday business processes such as OCR, documents and photos. Irrespective of the type of data your employees need to collect, you now get all the familiar functions from the industrial application for use in a potentially explosive atmosphere. The BCS 3600^{ex} series therefore offers a new level of reliability for scanners. The result? The most reliable, fastest and most accurate scanning functionality on the market, setting new standards.

| Industries | Areas of use |
|------------------------------------|--|
| Warehouse management Production | Outstanding data capture for the management of articles in the entire goods flow (incoming and outgoing goods, warehouse management, etc.) Proof of delivery Image capture |

Decoding options

| | |
|---|---|
| 1D barcodes | UPC/EAN, UPC/EAN with supplementals, Bookland EAN, ISSN, UCC Coupon Extended Code, Code 128, GS1-128, ISBT 128, ISBT Concatenation, Code 39, Code 39 Full ASCII, Trioptic Code 39, Code 32, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI, Chinese 2 of 5, Matrix 2 of 5, Korean 3 of 5, GS1 DataBar variants |
| 2D barcodes | PDF417, MicroPDF417, Composite Codes, TLC-39, Data Matrix, Maxicode, QR Code, Micro QR, Aztec, Han Xin, GS1-QR, GS1-DM |
| Postcodes | US Postnet, US Planet, UK Postal, Japan Post, Australia Post, Royal Mail 4 State Customer, KIX Code (Dutch), UPU 4 State Postal FICS (Post US4), USPS 4 State Postal (Post US3) |
| OCR (optical character recognition, photos and documents) | OCR-A/B, MICR-E13B, Series number of US currency |

Decoding ranges

| Symbolology/resolution | Near/distant |
|------------------------|------------------|
| Code 128: 0.127 mm | 15.2 to 35.6 cm |
| Code 128: 0.508 mm | 12.7 to 114.3 cm |
| Code 128: 1.016 mm | 7.1 to 203.2 cm |
| DataMatrix: 0.1905 mm | 17.8 to 27.9 cm |
| DataMatrix: 0.254 mm | 15.2 to 38.1 cm |

- **Outstanding performance**

Your employees can scan information at high speed – virtually all current barcodes under any conditions. From photos to document the condition of incoming deliveries, through to images for the purpose of electronic archiving. It is not even a problem if barcodes are damaged, soiled or have been printed in poor quality – this intelligent scanner can handle them all.

- **Ultra-rugged design**

There is hardly any place as tough as in the warehouse or the production plant. For this reason, we have now also developed an explosion protected version of the DS 3608 and DS 3678 from ZEBRA. These models are available in a corded or cordless design and are the most robust scanners on the market.

- **Unrivalled handling simplicity**

Using our industry-best tools, the handling of these scanners could not be simpler. You can remotely configure and extend your scanners, format data for an immediate transfer to your business applications, monitor the battery charge of cordless models and much more.

- **Outstanding scan performance with 1D/2D barcodes in every environment**

The advanced imager reads 1D and 2D barcodes on a monitor or label faster and with a 30 % larger working area than comparable models of this class for unsurpassed productivity. Employees are able to successfully scan virtually any barcode at the first attempt, even if it is damaged, dirty, poorly printed or under shrink-wrap.

- **Ultra-rugged – the toughest design in its class**

The BCS 3608^{ex}/BCS 3678^{ex} is our toughest scanner yet, with the highest drop and tumble specification and the best sealing of its class. The BCS 3608^{ex}/BCS 3678^{ex} is built to survive a 2.4 m drop to concrete, which is 23 % more durable than any other scanner in this class. The BCS 3608^{ex}/BCS 3678^{ex} operates reliably even after 5,000 tumbles, simulating the real-world tumbling that occurs with a drop. Both models are dust-proof, spray-proof and water-proofed to IP 65.

- **More than just barcodes: capture OCR, photos and documents**

With ZEBRA's intelligent document capture, photos are taken, refocused and corrected to make them easier to read. The support of several OCR typefaces also ensures fast and simple data transfer.

- **Simple handling with the original complimentary tools from ZEBRA**

You can use the original ZEBRA tools without restriction including the 123Scan² and the Scanner Management Service (SMS) using which scanners are remotely configured, firmware upgrades conducted, data formatted to suit your back-end systems or the Power Precision +/- battery statistics checked and much more.

- **Capture and processing of up to 20 barcodes simultaneously**

Many labels have several barcodes which need to be scanned by your staff. Now, one press of the trigger captures the right barcodes and applies the unique data format required for each one for instant transmission to your back-end systems – all with complete control over the order barcodes are processed.

- **Faster pick-list processing**

Users can easily select and read an individual barcode from any pick list.

- **Extreme temperature rating**

These scanners withstand extreme cold, heat and moisture, and can therefore be deployed almost anywhere.

- **A Bluetooth model in a class of its own for superior cordless freedom**

Bluetooth 4.0 (Low Energy) provides a lightning fast connection and maximum energy efficiency. Our ZEBRA Wi-Fi Friendly Mode eliminates the interference that Bluetooth devices can often create in Wi-Fi environments. The compact and rugged cradle offers excellent flexibility and durability. The BCS 3678^{ex} is the only scanner of this product family with a cradle in the IP 65 class of protection. Its charging contacts withstand 250,000 insertions.

The first-in-its-class 'battery charge gauge' and Bluetooth status LED make it easy to monitor battery power as well as Bluetooth connectivity.

The Power Precision +/- battery represents the ultimate when it comes to battery performance and management. You achieve more scans per battery charge compared to rival products and obtain a wealth of data about the condition of the battery, for example past charge cycles, current battery status and an operating status display that indicates whether batteries are functioning efficiently and are fully charged or whether they must be taken out of operation.



The corded version is ideal for stationary applications used to collect data from 1D barcodes, 2D barcodes, postcodes and OCR in a potentially explosive atmosphere. The rugged version offers all highly developed ergonomic and functional features required in industrial applications. The corded version requires a universal supply module to guarantee ex-compliant voltage supply and data communication.

Explosion protection

| | |
|--|---|
| Marking ATEX Zone 2/22 | II 3G Ex ic IIC T4 Gc II 3D Ex ic IIIB T135 °C Dc IP 64 |
| Certification | EPS 16 ATEX 1113 X |
| Marking IECEx Zone 2/22 | Ex ic IIC T4 Gc Ex ic IIIB T135 °C Dc IP 64 |
| Certification | IECEx EPS 16.0050X |
| Marking ETL | Class I, II, III Div. 2 Class I Div. 2 Groups A, B, C, D Class II Div. 2 Groups F, G Class III Class I Div. 2 Class I Div. 2 Groups A, B, C and D T4 |
| Certification | 5012876 |
| Other approvals and certificates, see www.bartec.de | |

Technical data

| Physical features | |
|------------------------------------|---|
| Dimensions (H x W x D) | 185 mm x 76 mm x 132 mm |
| Weight | 309 g excluding cord |
| Operating current (full operation) | 500 mA (typical) |
| Resting current (stand-by) | 165 mA (typical) |
| Input voltage | 5 V |
| Max. input power | 2.75 W |
| Max. input current | 550 mA |
| Max. inner capacity | 752.57 µF |
| Max. inner inductivity | 17.4 µH |
| Colour | Industrial green |
| Material | Lexane EXL 1414 |
| User displays | Direct decoding display, LEDs, signal tone, vibration |
| Supported interfaces | RS232 (Scanner to the universal power supply module) |

| Performance features | |
|--|---|
| Illumination | 2 x LED, warm white |
| High-performance scanner 1D/2D imager SE4750 | For scanning 1D barcodes, 2D barcodes, postcodes, OCR |
| User environment | |
| Ambient temperature | -20 °C to +50 °C |
| Storage temperature | -40 °C to +70 °C |
| Relative air humidity | 5 % to 95 %, condensing |
| Protection class | IP 65 |
| Insensitivity to ambient light | 0 to 108,000 lux (in direct sunlight) |
| Programming/service programs | |
| Programming cable (from PC to scanner via USB) | Available as an option; for the use of ZEBRA Software Tools such as 123Scan ² to configure hand-held scanners in the safe area on a PC |
| Programming manual | Permits programming by scanning barcodes. Available at: www.zebra.com |
| 123Scan ² | Programming of scanner parameters, firmware upgrades, provision of scanned barcode data and printing of reports. Available at: www.zebra.com |
| Scanner Management Service (SMS) | Performs remote administration of your ZEBRA scanners and retrieves its inventory data. Available at: www.zebra.com |

Ordering information



BCS 3608^{ex}-NI **B7-A2S4-1HPO**

Technical data subject to change without notice.



The Bluetooth version is ideal for mobile applications used to collect data from 1D barcodes, 2D barcodes, postcodes and OCR in a potentially explosive atmosphere. The rugged version offers all highly developed ergonomic and functional features required in industrial applications. For the Bluetooth version there are several options for data transfer via Bluetooth.

Explosion protection

| | |
|--|--|
| Marking ATEX Zone 2/22 |  II 3G Ex ic IIC T4 Gc  II 3D Ex ic IIIB T135 °C Dc IP 64 |
| Certification | EPS 16 ATEX 1113 X |
| Marking IECEx Zone 2/22 | Ex ic IIC T4 Gc Ex ic IIIB T135 °C Dc IP 64 |
| Certification | IECEx EPS 16.0050X |
| Marking ETL | Class I, II, III Div. 2 Class I Div. 2 Groups A, B, C and D Class II Div. 2 Groups F, G Class III Class I Div. 2 Class I Div. 2 Groups A, B, C and D T4 |
| Certification | 5012876 |
| Other approvals and certificates, see www.bartec.de | |

Technical data

| | |
|---|--|
| Physical features | |
| Dimensions (H x W x D) | 185 mm x 76 mm x 142 mm |
| Weight | 411 g |
| Operating current (full operation) | 650 mA (typical) |
| Resting current (stand-by) | 4 mA (typical) |
| Max. input voltage | 4.2 V |
| Max. input power | 2.275 W |
| Max. input current | 10 A |
| Max. inner capacity | 1105.2 µF |
| Max. inner inductivity | 15.96 µH |
| Colour | Industrial green |
| Material | Lexane EXL 1414 |
| User displays | Direct decoding display, LEDs, signal tone, vibration |
| Battery | Lithium-ion 3.6 V/3150 mAh |
| Cordless connection to | Bluetooth universal supply module, base station, Bluetooth-enabled terminal devices Bluetooth Class 1, Version 4.0 (LE), serial interface (SPP) and HID profile |
| Radio range (direct visual connection outdoors) | Via Bluetooth universal supply module, base station or Bluetooth-enabled terminal devices Class 1: at least 100.0 m Class 2: at least 10.0 m |
| Data rate | 3 Mbit/s (2.1 Mbit/s) for classic Bluetooth 1 Mbit/s (0.27 Mbit/s) for Low Energy |

| | |
|--|---|
| Performance features | |
| Illumination | 2 x LED, warm white |
| High-performance scanner 1D/2D imager SE4750 | For scanning 1D barcodes, 2D barcodes, postcodes, OCR |
| User environment | |
| Ambient temperature | -20 °C to +50 °C |
| Storage temperature | -40 °C to +70 °C |
| Relative air humidity | 5 % to 95 %, condensing |
| Protection class | IP 65 |
| Insensitivity to ambient light | 0 to 108,000 lux (in direct sunlight) |
| Programming/service programs | |
| Programming cable (from PC to scanner via USB) | Available as an option; for the use of ZEBRA Software Tools such as 123Scan ² to configure hand-held scanners in the safe area on a PC |
| Programming manual | Permits programming by scanning barcodes. Available at: www.zebra.com |
| 123Scan ² | Programming of scanner parameters, firmware upgrades, provision of scanned barcode data and printing of reports. Available at: www.zebra.com |
| Scanner Management Service (SMS) | Performs remote administration of your ZEBRA scanners and retrieves its inventory data. Available at: www.zebra.com |

Ordering information

| | |
|----------------------------|---------------------|
| BCS 3678 ^{ex} -NI | B7-A2S4-2HP1 |
|----------------------------|---------------------|

Technical data subject to change without notice.






Accessories for hand-held scanner BCS 3600-NI series

for ATEX/IECEx Zone 2/22 and CSA Class I, II, III Div. 2



Ordering information

Accessories for use in potentially explosive atmospheres

| Illustration | Description | Order no. |
|---|---|---|
|  | Battery for hand-held scanner BCS 3678 ^{ex} -NI Lithium-ion battery 3.6 V/3150 mAh May only be changed outside the potentially explosive atmosphere! | B7-A2Z0-0036 |
|  | High quality leather holster for hand-held scanner series BCS - for attachment to a belt or wall - Colour: black | 17-A1Z0-0024 |
|  | Connection cable Connection between universal supply module and scanner 1.9 m (plain) 4.5 m (plain) | B7-A2Z0-0037 B7-A2Z0-0038 |
|  | 2.7 m (spiral) | B7-A2Z0-0039 |
|  | HMI limiting cable Connection between HMI and scanner 1.9 m (plain) USB 1.9 m (plain) RS232 4.5 m (plain) RS232; can be individually shortened | B7-A2Z0-0041 B7-A2Z0-0040 B7-A2Z0-0050 |

Ordering information

Accessories for use outside potentially explosive atmospheres

| Illustration | Description | Order no. |
|---|---|---------------------|
|  | 4-slot battery charger for hand-held scanner BCS 3678 ^{ex} -NI and BCS 3678 - Input voltage: DC 12 V (50 W) - Charging display via LED and sound Additionally required: (not included in delivery) - Power pack with DC connecting cable - AC power cable | G7-A0Z0-0013 |
|  | 4-slot battery charger for hand-held scanner BCS 3678 ^{ex} -IS - Input voltage: DC 12 V (50 W) - Charging display via LED and sound Additionally required: (not included in delivery) - Power pack with DC connecting cable - AC power cable | 17-A1Z0-0013 |
|  | Base station for hand-held scanner BCS 3678 ^{ex} -NI and BCS 3678 - Input voltage with RS232: DC 12 V - Input voltage with USB: 5 V - Multipoint Interface: compatible with up to 7 scanners - LED charge function and charging indicator - IP 65 Additionally required: (not included in delivery) - Power pack with DC connecting cable - AC power cable - Connecting cable | G7-A0Z0-0010 |
|  | Base station for hand-held scanner BCS 3678 ^{ex} -IS - Input voltage: DC 12 V - Multipoint Interface: compatible with up to 7 scanners - LED charge function and charging indicator - IP 65 Additionally required: (not included in delivery) - Power pack with DC connecting cable - AC power cable - Connecting cable | 17-A1Z0-0014 |

Ordering information

Accessories for use outside potentially explosive atmospheres

| Illustration | Description | Order no. |
|---|--|---------------------|
|  | Programming cable for programming BCS 3600 ^{ex} -IS 1.9 m (plain) | 17-A1Z0-0020 |
| | Additionally required: (not included in delivery) - Power pack - AC power cable | |
|  | Programming cable for programming BCS 3600 ^{ex} -NI 1.9 m (plain) | B7-A2Z0-0046 |
|  | Power supply with DC connecting cable - Input voltage: AC 100 V to 240 V - Output voltage: DC 12 V/4, 16 A/50 W | G7-A0Z0-0019 |
|  | AC power cable - US + Canada | G7-A0Z0-0024 |
| | - LATAM | G7-A0Z0-0025 |
| | - EU + APAC | G7-A0Z0-0026 |
| | - TAIWAN | G7-A0Z0-0027 |
|  | Connecting cable Connection between PC and base station - RS232: 2 m (plain) | G7-A0Z0-0014 |
| | - RS232: 4.6 m (plain) | G7-A0Z0-0015 |
| | - RS232: 2.8 m (spiral) | G7-A0Z0-0016 |
| | - USB: 2 m (plain) | G7-A0Z0-0017 |
| | - USB with power supply: 12 V, 2 m (plain) | G7-A0Z0-0018 |
| | | |
|  | Special tool for lock nut for hand-held scanner BCS 3678 ^{ex} - For opening and locking the special lock - 5 pieces | G7-A0Z0-0031 |



The universal supply module is designed for an intrinsically safe supply (barrier) and contains a safety barrier (evaluation barrier) for data lines in a potentially explosive atmosphere. The data lines can be connected directly in the potentially explosive atmosphere to non-Ex systems, for example PCs, PLCs or microprocessors. The data interface to be used can be set using dip switches. These adjustment possibilities make it easier for an existing old system to subsequently be converted and modified.

Explosion protection

| | |
|--|--|
| Marking ATEX | Ex II 3G Ex ic IIC T4 Gc |
| Zone 2/22 | Ex II 3D Ex ic IIIB T135 °C Dc IP 64 |
| Certification | EPS 16 ATEX 1113 X |
| Marking IECEx | Ex ic IIC T4 Gc |
| Zone 2/22 | Ex ic IIIB T135 °C Dc IP 64 |
| Certification | IECEx EPS 16.0050X |
| Marking ETL | Class I, II, III Div. 2 Class I Div. 2 Groups A, B, C and D Class II Div. 2 Groups F, G Class III Class I Div. 2 Class I Div. 2 Groups A, B, C and D T4 |
| Certification | applied for |
| Other approvals and certificates, see www.bartec.de | |

Technical data

| Physical features | |
|--|--|
| Dimensions (H x W x D) | 81 mm x 176 mm x 88 mm |
| Input voltage | DC 24 V, AC 85 to 250 V |
| Colour | black |
| Material | Thermoplastic |
| Supported interfaces | Universal supply module to Host USB RS232 RS422 RS485 Adjustable via dip switch |
| max. cable length | 5 m 15 m 1000 m 1200 m |
| Connecting cable (Universal supply module to host) | Not available in scope of delivery! Please use commercially available shielded data lines to avoid outside interference |
| User environment | |
| Ambient temperature | -20 °C to +50 °C |
| Storage temperature | -40 °C to +70 °C |
| Relative air humidity | 5 % to 95 %, condensing |
| Protection class | IP 65 |
| Insensitivity to ambient light | 0 to 108,000 lux (in direct sunlight) |

Specification

| | |
|---------------------|--------|
| Weight | 380 g |
| Max. output voltage | 5 V |
| Max. output current | 550 mA |
| Max. output power | 2.75 W |

Ordering information

| | |
|---|---------------------|
| Universal supply module, corded for BCS 3608 ^{ex} -NI | B7-A2Z0-0042 |
| Universal supply module, Bluetooth for BCS 3678 ^{ex} -NI | B7-A2Z0-0043 |

Technical data subject to change without notice.

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