BARTEC

Tablet PC Agile X IS

Quick Start Guide

BARTEC

Quick Start Guide - Translation

Agile X IS

10.1" Tablet PC

Type 17-A1B*-****/********

ATEX / IECEx Zone 0
ATEX / IECEx Zone 1
ATEX / IECEx Group I
Class I, Division 1
Class I, II, III, Division 1
Class I, Zone 0
Class I, Zone 1

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Proviso: Subject to technical changes. Changes, mistakes and printing errors do not substantiate any claim to damages.

Content	Pages
English	1-39

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1 Basic safety information

1.1 Information on this Quick Start Guide

Read carefully before putting the devices into operation.

The Quick Start Guide is a fixed part of the product. It must be kept in the direct vicinity of the device and the installation, operating and service staff must have access to it at all times.

The Quick Start Guide contains important information, safety instructions and test certificates which are necessary for the perfect function of the device in operation.

The Quick Start Guide is directed at all individuals concerned with the commissioning, handling and servicing of the product. The applicable guidelines and standards for areas with gas and dust atmosphere (EN/IEC 60079-17, EN/IEC 60079-19) must be observed when conducting this work.

Knowledge of the safety and warning information in this Quick Start Guide and the strict compliance with it is essential for safe installation and commissioning. Accidents, injuries and material damage can be avoided by circumspect handling and systematically following the instructions.

The examples, tables, and figures provided in this Quick Start Guide are for illustration purposes. Due to the different requirements of the respective application, the BARTEC company cannot assume responsibility or liability for actual use based on the examples and figures.

The BARTEC company reserves the right to carry out technical changes at any time.

In no event will BARTEC company be responsible or liable for indirect or consequential damages resulting from the use or application of this Quick Start Guide.

Safety and warning information is particularly emphasised in this Quick Start Guide and marked by symbols.

DANGER

DANGER describes a directly imminent danger. If not avoided, death or severe injury will be the consequence.

WARNING

WARNING describes a possibly imminent danger. If not avoided, death or severe injury may be the consequence.

CAUTION

CAUTION describes a possibly imminent danger. If not avoided, mild or slight injury may be the consequence.

ATTENTION

ATTENTION describes a possibly damaging situation. If not avoided, the plant or objects in its vicinity may be damaged.

Important information on effective, economical & environmentally compliant handling.

1.1.1 Languages

The original Quick Start Guide with safety information is written in German. All other available languages are translations of the original Quick Start Guide.

The Quick Start Guide is available in German and English. If further languages are required, these must be requested from BARTEC or stated on placing an order.

1.1.2 Changes in the document

BARTEC reserves the right to change the content of this document without notification. No warranty is assumed for the correctness of the information. In cases of doubt, the German safety instructions apply because it is not possible to rule out errors of translation or printing. In the case of legal disputes, the "General Terms and Conditions of Business" of the BARTEC Group also apply.

The current versions of the datasheets, user manual, certificates and declarations of conformity can be downloaded from www.bartec.com or may be requested directly from BARTEC GmbH.

1.1.3 Registered trademarks

Intel®	is a registered trademark of Intel Corporation
Bluetooth®	is a registered trademark of Bluetooth Special Interest Group
WINDOWS	is a registered trademark of MICROSOFT Corporation

1.2 Handling the product

The product described in this Quick Start Guide left the factory in a perfect and tested state in terms of safety. To maintain this state and to achieve a perfect and safe operation of this product, it may only be operated in the manner described by the manufacturer. In addition, the perfect and safe operation of this product requires correct transportation, proper storage and careful operation.

The safe and perfect handling of the Tablet PC is a prerequisite for its perfect and correct functioning.

1.3 Intended use

1.3.1 Exclusive purpose

The Tablet PC series is a handheld piece of electrical equipment. It serves the purpose of the mobile recording, processing and/or radio transmission of data within potentially explosive atmospheres.

It is used exclusively in combination with devices which comply with the requirements placed on the overvoltage category I.

The admissible operating data of the device used must be considered.

1.3.2 Unintended use

Any other use is unintended and may lead to damage and accidents. The manufacturer shall not be liable for any use extending beyond the exclusive purpose.

1.4 Duties of the operator

The operator undertakes to only permit persons to work with the Tablet PC who

- are acquainted with the basic regulations on safety and accident prevention, and who have been inducted in the use of the Tablet PC,
- have read and understood the documentation, the safety chapter and the warnings.

The operator checks that the safety and accident prevention regulations applicable to the respective case of use have been observed.

1.5 Safety information

- Do not dry wipe or clean devices in potentially explosive atmospheres!
- Do not open devices in potentially explosive atmospheres.
- Do not replace or charge battery in potentially explosive atmospheres.
- General statutory provisions or guidelines on occupational health and safety, accident prevention provisions and environmental protection laws must be heeded, e.g. Operational Safety Ordinance (BetrSichV) and nationally applicable ordinances.
- Use suitable clothing and shoes with respect to the danger of hazardous electrostatic charges.
- Avoid heat influences outside the specified temperature range.
- Protect device from external influences! Do not expose device to caustic/aggressive liquids, vapours or spray. In the case of malfunction or damaged enclosure, remove the device immediately from the potentially explosive atmosphere and bring it to a safe place.

1.6 Maintenance

The pertinent erection and operating provisions for electrical systems must be observed! (e.g. Directive 2014/34/EU, BetrSichV and nationally applicable ordinances EN/IEC 60079-14 and the series DIN VDE 0100)!

Observe the national waste disposal regulations when disposing of the devices.

1.6.1 Servicing

No constant servicing will be necessary if operated correctly under consideration of the assembly instructions and environmental conditions. See chapter: Service, inspection, repair.

1.6.2 Inspection

According to EN/IEC 60079-17 and EN/IEC 60079-19 the operator of electrical systems in potentially explosive atmospheres is obliged to have these inspected by an electrician to ensure correct condition.

1.6.3 Repairs

Repairs to explosion-protected devices may only be performed by authorised personnel with original spare parts and according to the state of the art. The applicable provisions must be observed in this respect.

1.6.4 Commissioning

It must be checked that all components and documents are available before commissioning.

1.7 Labelling, test certificate, and standards

Labels on explosion protection and the test certificate are attached to the Tablet PC. Labeling see chapter: Technical data.

The guidelines and standards applicable to the Tablet PC for devices and protected systems for intended use in potentially explosive atmospheres are provided in chapter: Declaration of Conformity.

1.8 Warranty

WARNING

No changes or retrofits may be made without the written consent of the manufacturer.

If non-specified components are used, the explosion protection will no longer be guaranteed. In the case of externally procured parts, it is not guaranteed that these have been designed and manufactured in accordance with their load and requisite safety.

▶ Contact the manufacturer before any changes or retrofits to receive a release. Only use original spare and wearing parts.

The manufacturer shall exclusively assume the complete warranty only for spare parts ordered from him.

Our “General Terms and Conditions of Sale and Delivery” shall apply in principle. These shall be made available to the operator on signing of contract at the latest. Warranty and liability claims in the case of injury and damage to property shall be excluded if they are attributable to one or several of the following causes:

- Unintended use of the tablet PC.
- Incorrect handling
- Failure to observe the information in the Quick Start Guide and the user manual with respect to transport, storage, commissioning, operation and service.
- Independent structural changes
- Faulty monitoring of parts subject to wear and tear.
- Incorrectly performed repairs.
- Cases of disaster through the impact of foreign bodies and force majeure.

We grant a warranty period of one year starting from the date of delivery from the Bad Mergentheim factory on the Tablet PCs (exception: battery 6 months). The warranty period for accessories is one year starting from the date of delivery from the Bad Mergentheim factory. This warranty covers all parts of the delivery and shall be restricted to the free replacement or repair of the defective parts in our Bad Mergentheim factory. For this purpose, any packaging supplied must be kept where possible. In the case of warranty, the goods must be returned to us after written agreement using an RMA form. There shall be no claim to repair at the sight of erection.

The information contained herein refers to the explosion-protected version of the Tablet PC series Agile X IS.

This Quick Start Guide contains all important information on the subject of explosion protection. The user manual and further product information on handling and commissioning are similarly available.

1.9 Co-applicable documents

All documents are available online from the following websites:
www.bartec.com or http://automation.bartec.de/indexE.htm

Document	Explanation
User manual Tablet PC Agile X IS	This User Manual describes the use of the Tablet PC Agile X IS.
Quick Start Guide Tablet PC Agile S NI	This Quick Start Guide describes the safety-related information, first use and further data of the Tablet PC Agile X IS
Data sheet Tablet PC Agile S NI	This technical data sheet contains the most important explosion-relevant technical data as well as general technical data.

1.10 Definition of terms

A few abbreviations are used in the documentation.

IS = Intrinsically Safe =>
is used as generic term for the Zone 1 versions

Agile = stands for the entire product series

1.11 Configuration

The devices are only supplied with preinstalled operating system.
Customer software or further applications are not contained in the delivery.

This Quick Start Guide refers to the following configurations:

Configuration	Version
Processor	Intel Pentium N3710 Quad Core 1.6 GHz
Display	10.1"
Resolution	1920 x 1200 pixel
Memory	8 GB SODIMM DDR3L-1600
Mass storage	128 GB SATA uSSD
Operating system	Windows 10 IoT Enterprise LTSC – 64 Bit
Battery	The device is available with two batteries. Lithium-ion battery 7.4 V/4,200 mAh (31.08 Wh). An internal battery (not customer replaceable) is fix built–in, in every Agile X IS. Optional available is an external battery that can be inserted and replaced by customer. It can be replacede direct in hazardous area. The external battery can be replaced during operation. Important is to follow the correct procedure for replacement during operation to prevent device shutdown and data loss.
WLAN	IEEE 802.11 a/b/g/n/ac
Bluetooth	Version 4.1 LE Class I
WWAN (optional)	▪ 4G/LTE module with European frequencies ▪ 4G/LTE module with North American frequencies
GPS	u-Blox Neo-M8N
Scanner Options (optional)	1D/2D-Imager SE 4500 from Zebra Technologies Corporation
RFID-Reader HF/NFC	13,56 MHz ISO 15693 (read and write) ISO 14443-A (read and write) ISO 14443-B (only read UID)

2 Product description

2.1 Agile X IS

The Agile X IS is a tough Tablet PC with 10.1" display, which has been designed for use in the industrial environments and especially developed by BARTEC for use in potentially explosive atmospheres.

2.2 Purpose of use

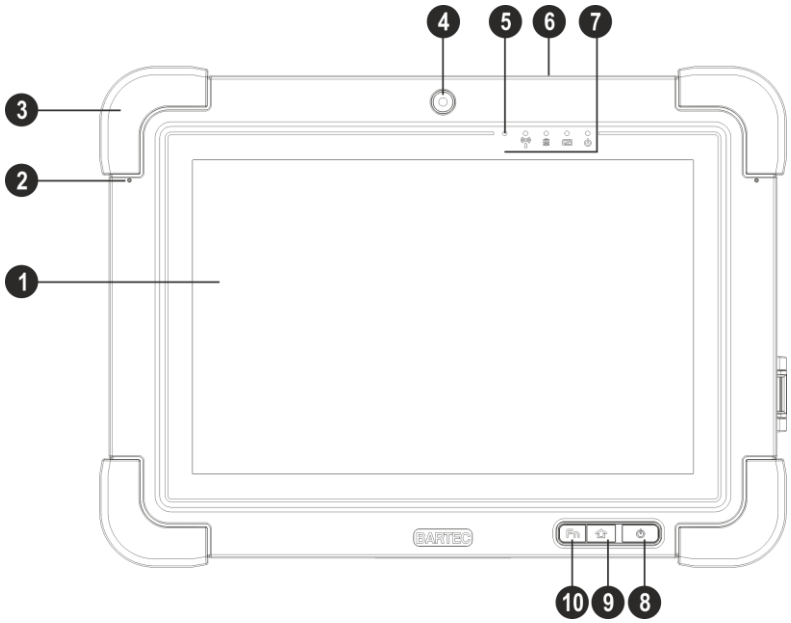
The Tablet PCs Agile X IS are handheld electrical devices. They serve the purpose of entry, processing and (radio) transmission of data within potentially explosive atmospheres.

The Tablet PC Agile X IS is used exclusively in combination with devices which comply with the requirements placed on the overvoltage category I.

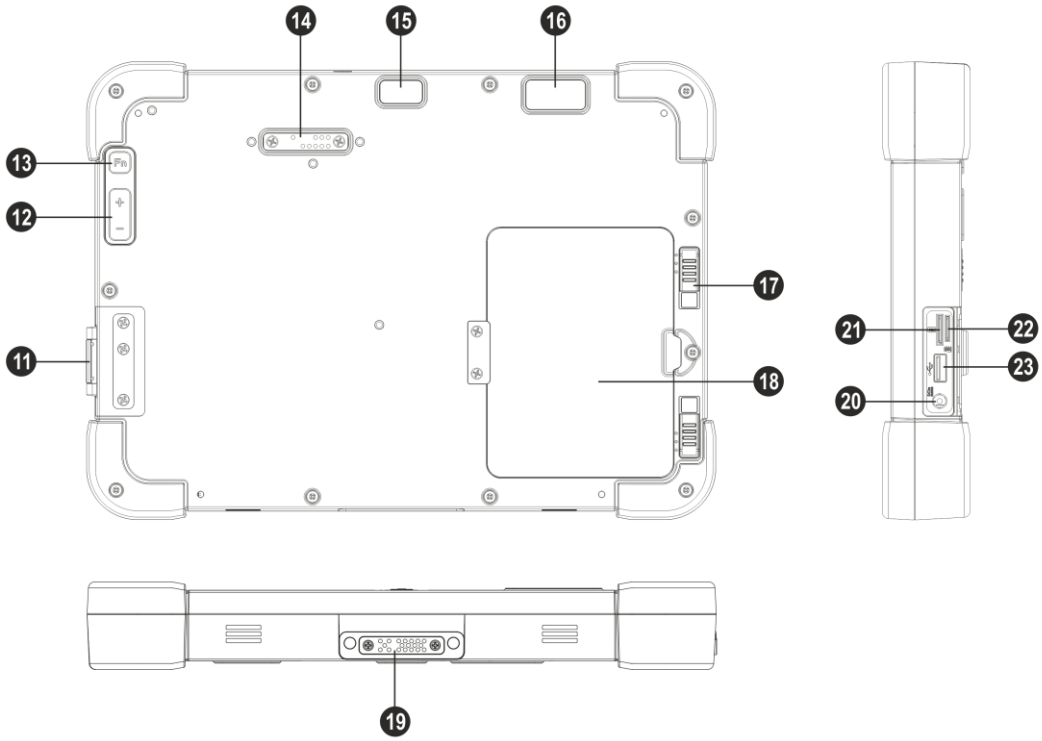
The **Agile X IS, Type 17-A1B.*-****/******** have been modified for use in the following potentially explosive atmospheres:

- ATEX / IECEx Zone 0
- ATEX / IECEx Zone 1
- ATEX / IECEx Group I
- Class I Division 1 Groups A, B, C and D
- Class II Division 1 Groups E, F and G
- Class III Division 1
- Class 1 Zone 0
- Class 1 Zone 1

3 Structure



1	Full HD 10-finger multi-touch outdoor display
2	2x digital microphone inclusive noise cancellation
3	Rubber bumper
4	Front camera
5	Brightness sensor
6	Kensington lock
7	LED indicators
8	Power button
9	Home menu button
10	Function key, freely programmable



11	Cover for I/O ports
12	Volume (+/-)
13	Function key (Fn2)
14	Expansion port for add on modules
15	High quality 5MP camera with flash
16	SE4500 1D/2D Imager from Zebra Technologies Corporation (optional)
17	Multi-stage battery compartment locking mechanism
18	Empty module/external battery (can be changed during active operations) for battery compartment
19	Docking station connection
20	Charging port
21	Micro SIM card slot
22	MicroSD card slot
23	Ex i USB 2.0 port

4 Technical data

4.1 Explosion protection

ATEX			
ATEX Zone 0	**Type:**	**17-A1B6-****/******** **17-A1BB-****/********	Ⓔx II 1 G Ex ia op is IIC T4 Ga -20 °C ≤ Ta ≤ +50 °C
ATEX Zone 1	**Type:**	**17-A1B4-****/******** **17-A1BA-****/********	Ⓔx II 2 G Ex ia op is IIC T4 Gb -20 °C ≤ Ta ≤ +50 °C
ATEX Group I	**Type:**	**17-A1BF-****/********	Ⓔx I M1 Ex ia op is I Ma -20 °C ≤ Ta ≤ +50 °C
Test certificate			DEMKO 16 ATEX 1803
Standards			see chapter: EU Declaration of Conformity
IECEx			
IECEx Zone 0	**Type:**	**17-A1B6-****/******** **17-A1BB-****/********	Ex ia op is IIC T4 Ga -20 °C ≤ Ta ≤ +50 °C
IECEx Zone 1	**Type:**	**17-A1B4-****/******** **17-A1BA-****/********	Ex ia op is IIC T4 Gb -20 °C ≤ Ta ≤ +50 °C
IECEx Group I	**Type:**	**17-A1BF-****/********	Ex ia op is I Ma -20 °C ≤ Ta ≤ +50 °C
Test certificate			IECEx UL 16.0160
Standards			see chapter: EU Declaration of Conformity

Class I, Division 1 and Class I Zone 0 / 1			
Class I **Division 1**	**Type:**	**17-A1B4-****/******** **17-A1B6-****/******** **17-A1BA-****/******** **17-A1BB-****/********	Class I, Division 1, Groups A, B, C and D
Class I, II. III **Division 1**	**Type:**	**17-A1BA-****/******** **17-A1BB-****/********	Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III, Division 1
USL	**Type:**	**17-A1B6-****/******** **17-A1BB-****/********	Class I, Zone 0, AEx ia IIC T4 Ga -20 °C ≤ Ta ≤ +50 °C
	Type:	**17-A1B4-****/******** **17-A1BA-****/********	Class I, Zone 1, AEx ia IIC T4 Gb -20 °C ≤ Ta ≤ +50 °C
CNL	**Type:**	**17-A1B6-****/******** **17-A1BB-****/********	Ex ia IIC T4 Ga -20 °C ≤ Ta ≤ +50 °C
	Type:	**17-A1B4-****/******** **17-A1BA-****/********	Ex ia IIC T4 Gb -20 °C ≤ Ta ≤ +50 °C
Test certificate for USA and Canada			E226123
Standards			see chapter: EU Declaration of Conformity
Guidelines			UL 913: 8th Edition UL 60079-0: 6th Edition CAN/CSA C22.2 No. 60079-0:15 UL 60079-11: 6th Edition CAN/CSA C22.2 No. 60079-11:14

4.2 Applicable standards

4.2.1 Performance features

Processor	Intel Pentium N3710 Quad Core 1.6 GHz 1.6 – 2.56 GHz clock speed
Operating system	Windows 10 IoT Enterprise LTSC - 64 Bit
Memory	8 GB SODIMM DDR3L-1600
Mass storage	128 GB SATA uSSD
Expansion slot	MicroSD card slot supports up to 32 GB
Interfaces **Tablet PC**	1x USB 2.0 port (Ex i) 1x MicroSD card slot 1x Micro SIM card slot 1x Charging port (DC 19 V) 1x Extension port for Add-on module 1x Port Docking station
Interfaces **Docking station**	4x USB 2.0 1x RS232 serial 1x Ethernet 10/100 Mbit/s 1x HDMI 1x Charging port (DC 9 V to 36 V)

4.2.2 Physikalische Merkmale

Dimensions (width x height x depth)	290 mm x 209 mm x 33 mm (11.4 inch x 8.2 inch x 1.3 inch)
Weight (including internal battery)	Depends on version and configuration approx. 2.3 kg (approx. 5.1 lb)
Display Size Background light Luminance Resolution Contrast Touch	 10.1" LED 700 cd/m² (typical) 1920 x 1200 pixel 800:1 (typical) Projective capacity Muli-Touch
Interactive sensor technology	Light sensor G-Sensor E compass
Keys on front side	 ▪ Function button (Fn1), free programmable ▪ Home- button ▪ Power button

Tasten Rückseite	 ▪ Function button (Fn2), free programmable (if no 1D/2D-Imager)) ▪ Button for volume (+/-)

4.2.3 User environment

Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Storage temperature (without battery)	-20 °C to +50 °C (-4 °F to +122 °F)
Charging temperature	0 °C to +40 °C (+32 °F bis +104 °F)
Relative humidity	10 % to 90 % (non-condensing)
Class of protection (IEC 60529)	IP 65

4.2.4 Data transmission Bluetooth

Bluetooth-Standard	Bluetooth V4.1 from 1.2 and 3 Mbit/s
Antenna reference	0–2 dBi peak gain
Frequency band	2402 MHz – 2480 MHz
Maximum output power	FHSS: 6.90 dBm Wideband Modulation (BT LE): 5.40 dBm

4.2.5 Data transmission WiFi

Radio standard	IEEE 802.11 a/b/g/n/ac
Antenna reference	0-2 dBi peak gain
WiFi (2,4 GHz) RF Specification	
Frequency range	2.4000 GHz ~ 2.4835 GHz (2.4 GHz ISM Band)
Maximum output power	802.11b:16.30 dBm 802.11g:17.80 dBm 802.11n_20M:17.60 dBm
WiFi (5 GHz) RF Specification	
Frequency range	5.15 GHz – 5.35 GHz, 5.47 GHz – 5.725 GHz (5.0 GHz ISM Band)
Maximum output power	5.15 GHz – 5.35 GHz 802.11a: 20.44 dBm 802.11n_20M: 20.84 dBm 802.11n_40M: 19.14 dBm 802.11AC_80M: 17.74 dBm 5.47 GHz – 5.725 GHz 802.11a:19.94 dBm 802.11n_20M:20.64 dBm 802.11n_40M:20.44 dBm 802.11AC_80M: 19.74 dBm

RESTRICTIONS
The use of 5 GHz RLAN throughout the EEA has the following restrictions: 5.15 - 5.35 GHz is restricted to indoor use only

4.2.6 Data transmission LTE

Module support is not provided for all required bands. In terms of LTE support, only data is supported (no speech function). Video calls can be supported via other apps such as Skype or Line. For connectivity, the WWAN module supports the following bands:

4.2.6.1 PLS8-E (Europe)

Frequency band	
GSM/GPRS/EGDE **UMTS/HSPA+** **LTE**	Dual band: 900/1800 MHz Triple band: 900 (Bd 8)/1800 (Bd 3)/2100 MHz (Bd 1) Bands: 800 (Bd 20)/900 (Bd 8)/1800 (Bd 3)/ 2100 (Bd 1)/2600 MHz (Bd 7)
Output power	Class 4 (+33dBm ±2dB) for EGSM900 Class 1 (+30dBm ±2dB) for GSM1800 Class E2 (+27dBm ± 3dB) for GSM 900 8-PSK Class E2 (+26dBm +3 /-4dB) for GSM 1800 8-PSK Class 3 (+24dBm +1/-3dB) for UMTS 900, WCDMA FDD Bd 8 Class 3 (+24dBm +1/-3dB) for UMTS 1800, WCDMA FDD Bd 3 Class 3 (+24dBm +1/-3dB) for UMTS 2100, WCDMA FDD Bd 1 Class 3 (+23dBm ±2dB) for LTE 800, LTE FDD Bd 20 Class 3 (+23dBm ±2dB) for LTE 900, LTE FDD Bd 8 Class 3 (+23dBm ±2dB) for LTE 1800, LTE FDD Bd 3 Class 3 (+23dBm ±2dB) for LTE 2100, LTE FDD Bd 1 Class 3 (+23dBm ±2dB) for LTE 2600, LTE FDD Bd 7

4.2.6.2 PLS8-X-US

Frequence band	
GSM/GPRS/EGDE: **UMTS/HSPA+:** **LTE:**	Quad band: 850 MHz/900 MHz/1800 MHz/1900 MHz Triple band: 850 (Bd 5)/AWS (Bd 4)/1900 MHz (Bd 2) Bands: 700 (Bd 17) 850 (Bd 5)/AWS (Bd 4)/ 1900 MHz (Bd 2)
Output power	Class 4 (+33dBm ±2dB) for EGSM850 Class 4 (+33dBm ±2dB) for EGSM900 Class 1 (+30dBm ±2dB) for GSM1800 Class 1 (+30dBm ±2dB) for GSM1900 Class E2 (+27dBm ± 3dB) for GSM 850 8-PSK Class E2 (+27dBm ± 3dB) for GSM 900 8-PSK Class E2 (+26dBm +3 /-4dB) for GSM 1800 8-PSK Class E2 (+26dBm +3 /-4dB) for GSM 1900 8-PSK Class 3 (+24dBm +1/-3dB) for UMTS 850, WCDMA FDD Bd 5 Class 3 (+24dBm +1/-3dB) for UMTS AWS, WCDMA FDD Bd 4 Class 3 (+24dBm +1/-3dB) for UMTS 1900, WCDMA FDD Bd 2 Class 3 (+23dBm ±2dB) for LTE 700, LTE FDD Bd17 Class 3 (+23dBm ±2dB) for LTE 850, LTE FDD Bd 5 Class 3 (+23dBm ±2dB) for LTE AWS, LTE FDD Bd4 Class 3 (+23dBm ±2dB) for LTE 1900, LTE FDD Bd2

4.2.7 Data transmission RFID/NFC

The maximum scanning/writing ranges of the HF/NFC RFID readers depend on various ambient conditions, such as:

Transponder (tag), size, antenna used in the tag (size, design, etc.), mounting location (metal, wood or other base), environmental conditions, external magnetic influences, temperature and humidity

Frequency band	
RFID/NFC	13.56 MHz
Output power	-2.39 dBuA @ 10m

HF/NFC support protocol		
RFID Tag Typ	**Description**	**Support**
ISO 18092 (NFC)		Read / Write
ISO 15693	TI HF-I Plus TI HF-I Pro NXP I-Code SLI NXP I-Code SLI-X	Read / Write
ISO 14443-A	NXP Mifare_One (S50_4byte) NXP Mifare_One (S70_4byte) NXP Mifare_One (S50_7byte) NXP Mifare_UltraLight NXP Mifare_UltraLight C NXP Mifare Plus S 2K/4K NXP Mifare Plus X 2K/4K NXP NTAG213	Read / Write
ISO 14443-A	NXP Mifare DESFire_EV1 4K BROADCOM BCM20203T96 BROADCOM BCM20203T512	Only Read UID
ISO 14443-B		Only Read UID
NFC Tag Typ	**Description**	**Support**
Type 1	TOPAZ (BCM20203T96)	Only Read UID
Type 2	Mifare Ultralight	Read / Write
Type 4	DESFire EV1(MF3ICD81)	Only Read UID
ISO 15693	ICODE SLI (SL2ICS20) HF-I Pro HF-I Plus	Read / Write
ISO 14443A	Mifare Classic (MF1S50)	Read / Write

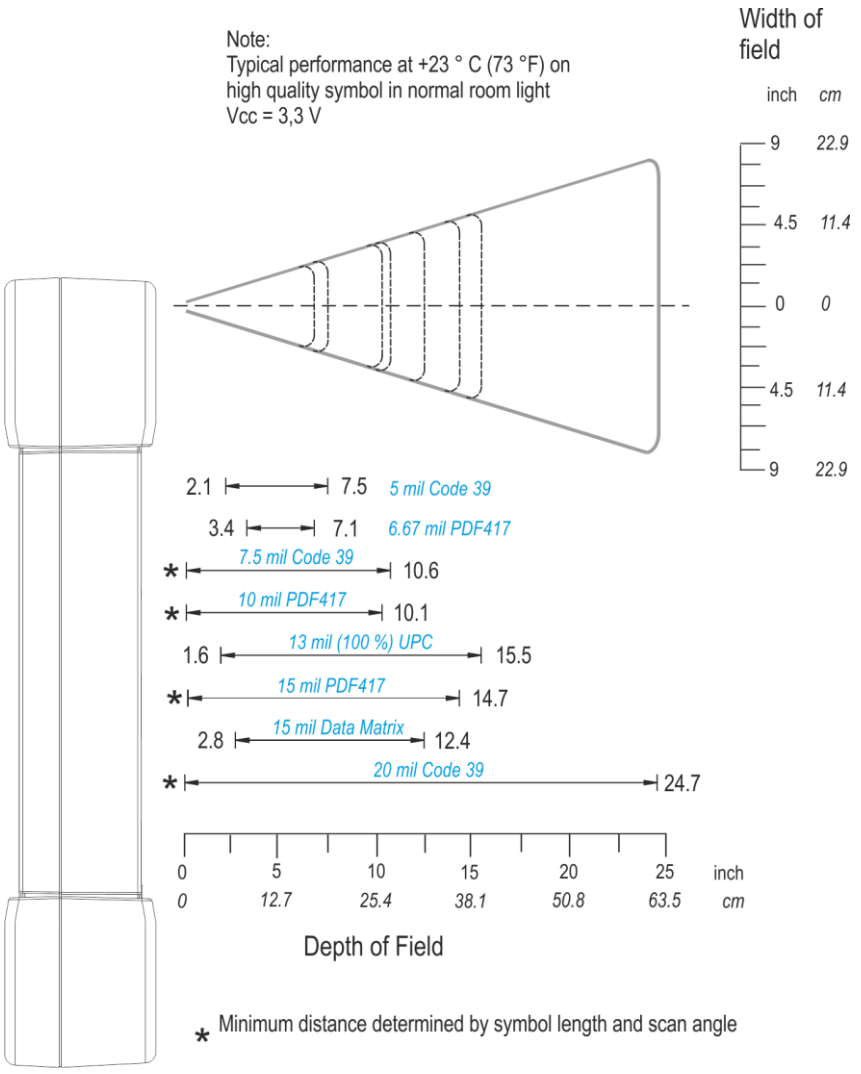
4.2.8 1D/2D-Imager (SE4500-SR)

The SE4500-SR is ideal for small to medium-sized 1D/2D barcodes.

The maximum scanning range of the 1D/2D Imager depends on the barcode type, print quality, module width (in mm) and software setting.

Laser class		CDRH Class 2 / IEC Class 2
Aiming LED (VLD)		655 nm ± 10 nm
Decode range	**5 mm Code 39**	Near: 5.3 cm (2.09 inch) Far: 19.1 cm (7.52 inch)
	100 % UPC/EAN	Near: 4.1 cm (1.61 inch) Far: 39.4 cm (15.51 inch)
	6.7 mm PDF 417	Near: 8.6 cm (3.39 inch) Far: 18.0 cm (7.09 inch)
Skew, pitch & roll		Skew tolerance: ± 60° Pick tolerance: ± 60° Roll tolerance: 360°
Focal distance from front of engine		approx. 20 cm (8 inch)
Scan rate		up to 60 fps
Sensor resolution		752 x 480 Pixel HxV (Grayscale)
Field of view		horizontal 40 ° vertical 25 °
Illumination element		2 LEDs, 625 nm
Minimum print contrast		25% absolute dark/light reflectance measured at 650 nm
Insensitivity to ambient light		96,900 Lux

Decode range



Supported Symbologies / Barcodes	
1D/Linear Symbol/Codes	Code 11 Code 39 Code 93 Code 128 Codabar Coupon code Chinesisch 2 of 5 Discrete 2 of 5 EAN-8 EAN-13 Interleaved 2 of 5 MSI Trioptic 39 UPC-A UPC/EAN additions UPC-E RSS 14 RSS Expanded RSS Limited Webcode
2D Symbol/Codes	Aztec Australian 4-state Canadian 4-state Composite AB Composite C Data Matrix Dutch Kit Japanese 4-state (Macro) Mikro PFD-417 MaxiCode microQR PDF-417 PDF-417 Macro QR Code TLC39 UK 4-state US Planet US Postnet USPS 4-state (US4CB)

4.3 Battery

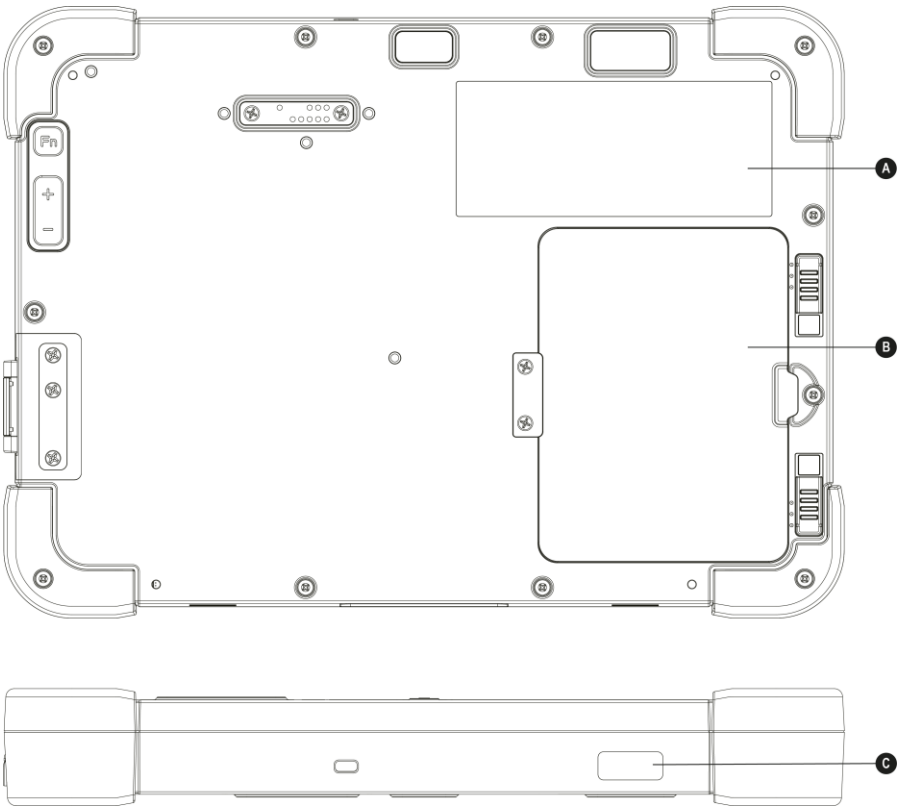
The life of the battery will depend on different use factors and the device settings, e.g.:

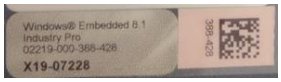
- Use and setting of WLAN / Bluetooth
- Background lighting / screensaver
- The settings in the power management
- Use and setting of the 1D/2D Imager
- Use and setting of the 4G/LTE module
- Use and setting of the RFID reader HF/NFC
- Use and setting of the add-on module
- Use and setting of the camera

Internal battery (fixed integrated)	Lithium-ion battery 7.4 V/4200 mAh (31.08 Wh)
External battery (optional; hot swappable)	Type 17-A1Z0-0006 Lithium-ion battery 7.4 V/4200 mAh (31.08 Wh)
Operating temperature **(internal + external battery)**	-20 °C to +50 °C (-4 °F to 122 °F)
Charging temperature	0 °C to +45 °C (+32 °F to 113 °F)
Storage temperature	-20 °C to +50 °C (-4 °F to 122 °F)
Relative humidity	5 %-90 % (non condensing)
Lifecycle	≥ 300
Charging time in Tablet PC	
▪ only internal battery	approx. 2 hours
▪ internal + external battery	approx. 4 hours
Operating hours	(from BatteryMark)
▪ only internal battery	Idle mode: 2 hours 45 minutes Burn in: 1 hour 20 minutes
▪ internal + external battery	Idle mode: 5 hours 40 minutes Burn in: 2 hours 44 minutes

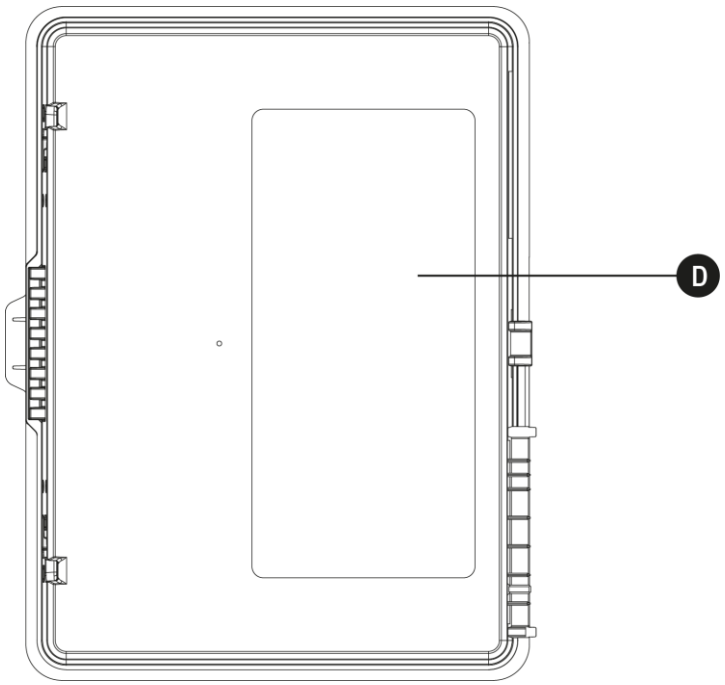
4.4 Product labelling

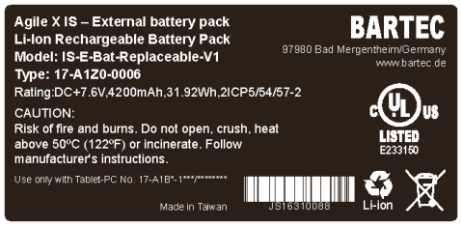
4.4.1 Agile X IS



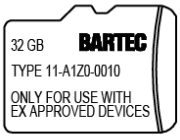
A	**Type label** *(here: Type 11-A1B4-****/********)*	
B	**Microsoft Windows licence** (in battery compartment; depending on operating system)	
C	**Laser warning** **(for devices with 1D/2D-Imager)**	

4.4.2 Battery



D	**Information on use**	

4.4.3 USB stick and MicroSD card

USB stick, Ex i; 8 GB Type 17-A1Z0-0007	
MicroSD card Type 17-A1Z0-0010	

5 Transport and storage

5.1 Transport

Report any transport damage or incomplete deliveries immediately after receipt in writing to the forwarding company and BARTEC GmbH.

Any damage caused through incorrect storage shall not be covered by the warranty provisions of BARTEC GmbH.

Battery is UN38.3 conform.

Due to the transport guidelines for air freight, all batteries are delivered ex works charged to max. 30 %.

Further information, like MSDS, can be found at

http://automation.bartec.de/indexE.htm

5.2 Storage

ATTENTION

Property damage through incorrect storage!

- ▶ Observe storage temperatures.
- ▶ Keep humidity away from the tablet PC.

Additional information on the batteries

The batteries of BARTEC are developed and manufactured in accordance with the highest industrial standards. The operating time or storage period of a battery is restricted, however. The actual life of a battery is influenced by different factors, e.g. hot, cold, rough operating environment and falling from a great height. If a battery is kept longer than six months, the performance may be impaired on a permanent basis. Keep the batteries in a dry, cool place. For longer periods of storage, remove the batteries from the device to prevent self-discharge, rusting of the metallic and the escape of electrolyte.

Batteries kept for a duration of six months or longer should be charged and discharged again at least every three months. If electrolyte has escaped, do not touch the areas affected and dispose of the batteries as prescribed. Replace the battery if the operating time has shortened considerably.

The standard warranty period for all BARTEC batteries is six months, whereby it is irrelevant whether the battery was acquired separately or was contained in the scope of the delivery of the tablet PC.

6 Commissioning

DANGER

Avoid electrostatic charging in potentially explosive atmosphere.
Danger to life in explosive atmosphere!

- ▶ Do not dry wipe or clean the devices.
- ▶ Wear suitable clothing and shoes.
- ▶ Do not use rubber gloves or similar.

DANGER

Unintended use endangers explosion protection.
Danger to life in explosive atmosphere!

- ▶ Do not make any changes to the tablet PC.
- ▶ In the case of function disturbances or damage to the enclosure, the device should be removed immediately from the potentially explosive atmosphere to a safe place. Remove battery to decommission the device!
- ▶ Do not use any battery replicas or batteries from other manufacturers.

6.1 Scope of delivery

- Tablet PC Agile X IS
- Dual stylus
- Power supply
- AC power cable EU+US
- Cover module or external battery
- Quick Start Guide

Before commissioning the device, make sure that all components and documents exist.

6.2 Requirements in potentially explosive atmosphere

Tablet PC

- The Tablet PC may not be opened.
- In the event of malfunctions or damage to the housing, switch off the tablet PC and remove it from the potentially explosive atmosphere.
- Do not use, swap or replace and non-specified components.
- Protect the Tablet PC from impact!
- Do not expose the Tablet PC to caustic/aggressive liquids, vapours, mists!
- Avoid the impact of moisture outside the specifications.
- Avoid thermal impact outside the specified temperature range.

Battery

- The battery may not be opened.
- Only charge the battery outside the potentially explosive atmosphere.
- To charge the battery, the charging temperature must be between 0°C and 40°C (32°F and 104°F).
- Only use the battery for the purpose listed in this Quick Start Guide and are only suitable for the Tablet PC Agile X IS Type 17-A1B*-****/********.
- The battery must be locked within the potentially explosive atmosphere.
- There is a danger of burning if used incorrectly. Do not expose the battery to temperatures of more than +50 °C (+122 °F).
- Defective batteries must be disposed of immediately, whereby the provisions on battery disposal applicable in the respective region must be observed.
- The battery may explode if it catches fire!
- Do not short circuit the battery!

Accessories

- Only install or replace accessories outside the potentially explosive atmosphere.
- User accessories exclusively which have been tested or certified by BARTEC for this purpose. Exception: Micro SIM card.

6.3 First steps

- ▶ Unpack the Tablet PC.
- ▶ Depending on the scope of delivery, insert either the cover module or the battery into the Tablet PC.

  or

  charge the battery and then insert it into the Tablet PC
- ▶ Use one of the following accessories to charge:

Description	Charging process	
	Battery (in Tablet PC)	Spare battery
Docking station Type: 03-9914-0022	Yes	No
2-slot battery charging station Type: 03-9914-0021	No	Yes

- ▶ Switch on the Tablet PC.

Optional:

- ▶ Insert a Micro SIM/MicroSD card.
- ▶ Remove/replace screen protector.

6.3.1 Insert external battery/cover module

DANGER

Non certified accessories endanger explosion protection.
Danger to life exists in potentially explosive atmospheres!

▶ Only use original accessories from BARTEC.

Spark formation when inserting/changing the battery!

▶ Only insert or remove batteries outside the potentially explosive atmosphere.

WARNING

Dirt on the battery contacts can impair the functionality!

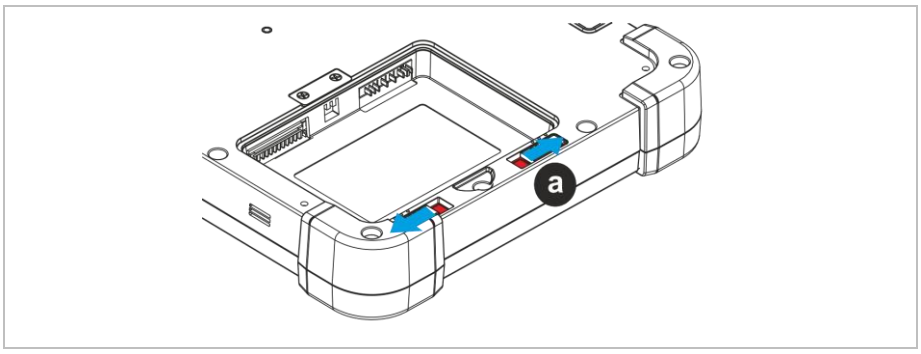
▶ Ensure that no external influences damage the external battery contacts when replacing the external battery/cover module.

▶ Protect the battery contacts by always using a external battery or the cover module.

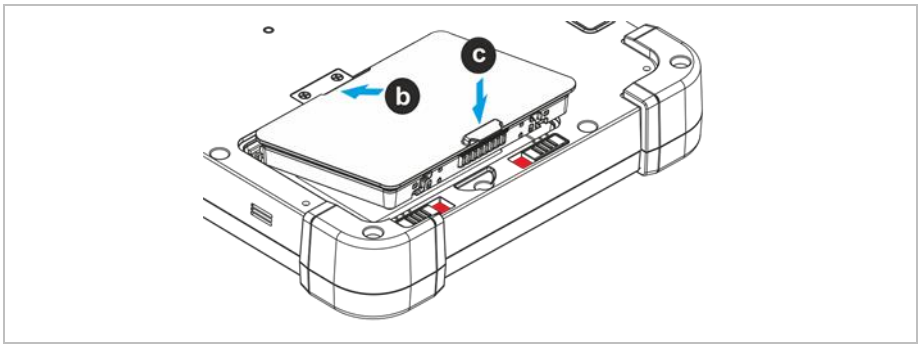
Only the following batteries/cover modules are permitted:

Variant	Type
Battery - 7.4 V/4200 mAh (31.08 Wh)	17-A1Z0-0006
Cover module	03-9849-0150

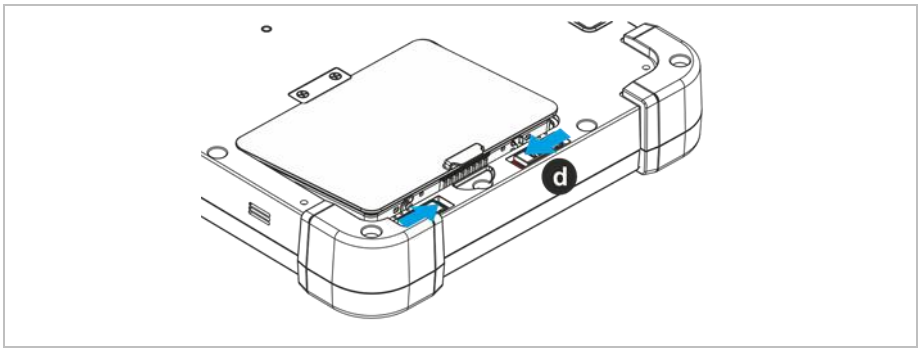
1. Place the Tablet PC with the front side (display facing down) on a flat surface. Be careful not to scratch the display. The power supply automatically switches from the external battery to the internal battery.
2. Before using the battery or cover module, make sure that the multi-stage release latch **(a)** of the battery compartment is open. Make sure that both lock sliders are locked in the outer position (red markings in the release latch).



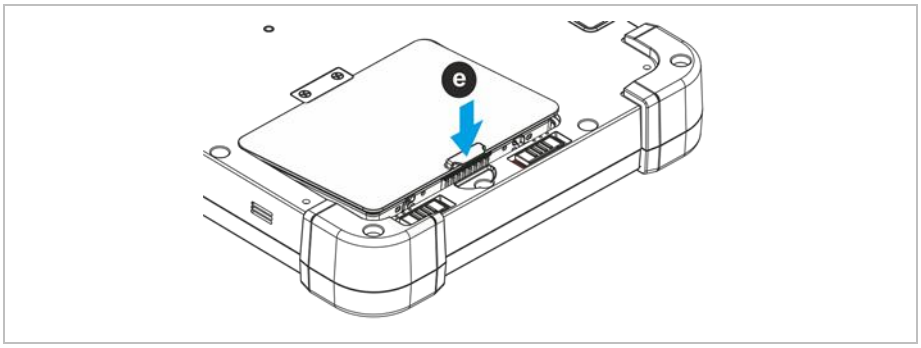
3. Insert the battery/cover module into the battery compartment **(b)** first. Press the battery/cover module into the clamp position **(c)**.



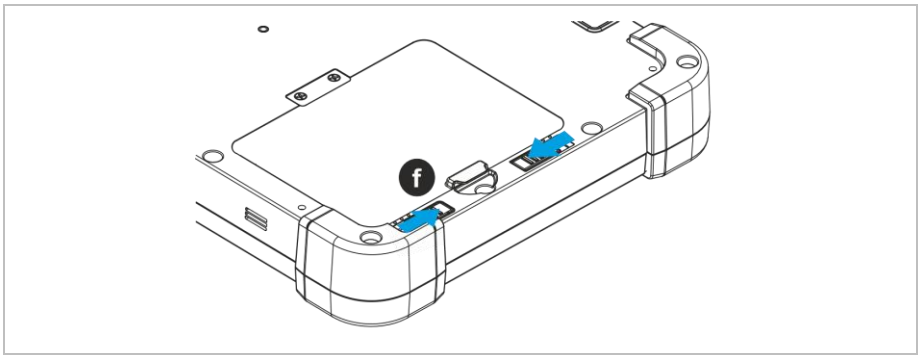
4. Move the lock sliders to the middle position **(d)**.



5. Press the battery/cover module into the battery compartment **(e)**.



6. Move the lock sliders into the locking position **(f)**.



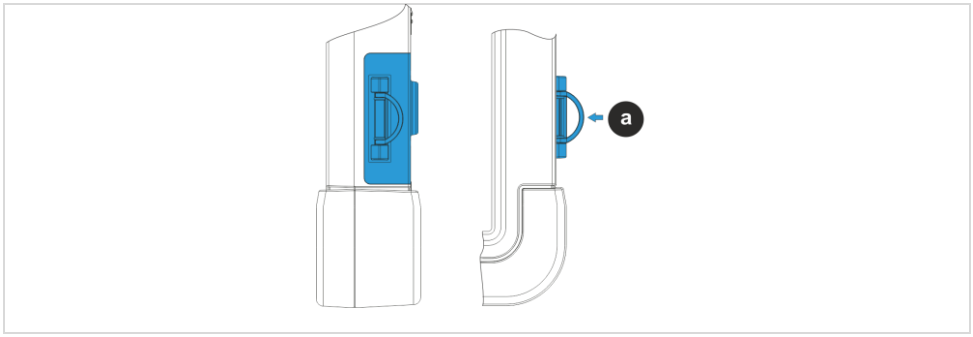
6.3.2 Charging the internal/external battery

DANGER

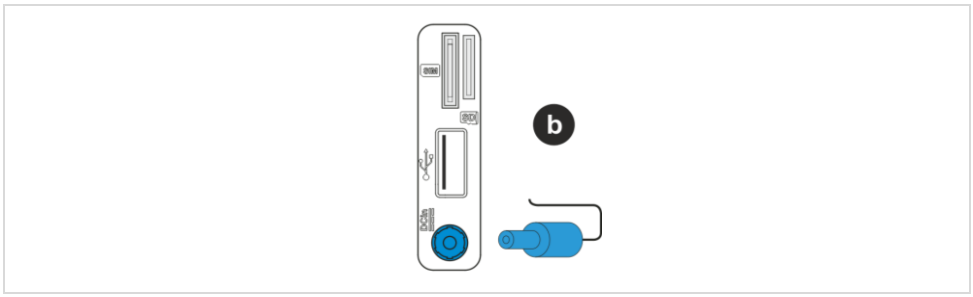
A danger to life exists in a potentially explosive atmosphere!

- ▶ Charge the batteries only outside potentially explosive atmospheres.
- ▶ Only use batteries and chargers that are certified/specified for the Agile X IS from BARTEC.

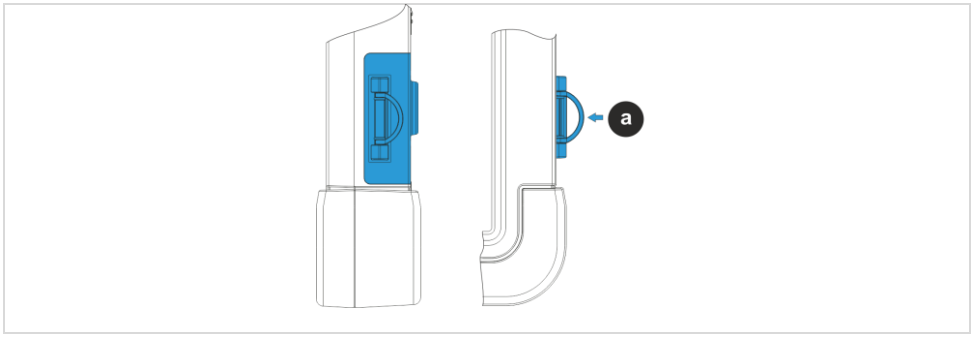
1. Pull out the folding metal bracket from the side of the cover **(a).**



2. Plug the power supply plug (Type 03-9911-0040) into the charging port **(b).**



3. Connect the power supply to an electrical outlet.
4. The device is fully charged as soon as the status LED is green.
5. Remove the power supply after charging.
6. Close the side cover **(a).**



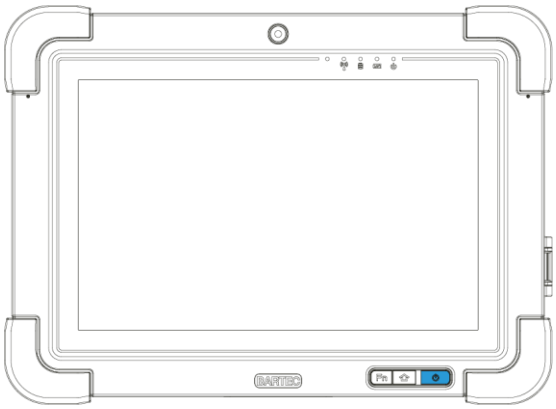
The protection class IP65 is guaranteed only when the side cover is completely closed.

The charging options for docking station and 2-slot battery charging station are described in their associated Quick Start Guide.

6.3.3 LED-Status Akku

LED indicator	Color	Signal	Bedeutung
	**green**	quickly flashing	Charging under 15%
		slowly flashing	Charging over 15%
		Steady light	fully charged
	red	Steady light	Remaining capacity Battery level 15% to 30%
		flashing	Remaining capacity Battery level under 15%
	off		No charging

6.3.4 Turn on/Turn off the Agile X IS



Turn on

Press and hold the power button on the device for more than three seconds.

Turn off

Press and hold the power button for six seconds or more.

Close all open programs before shutting down. Properly shut down the operating system from the Start menu.

7 Operation

7.1 Handling accessories

DANGER

Non certified accessories endanger explosion protection.
Danger to life exists in potentially explosive atmospheres!

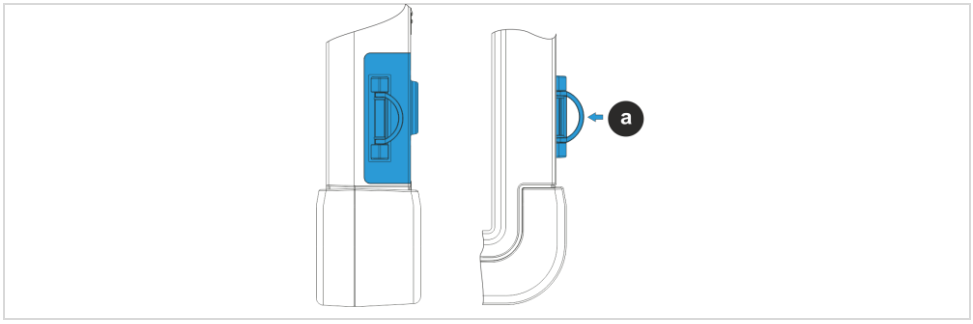
- ▶ Only use original accessories from BARTEC.

Only permitted outside the potentially explosive atmosphere:

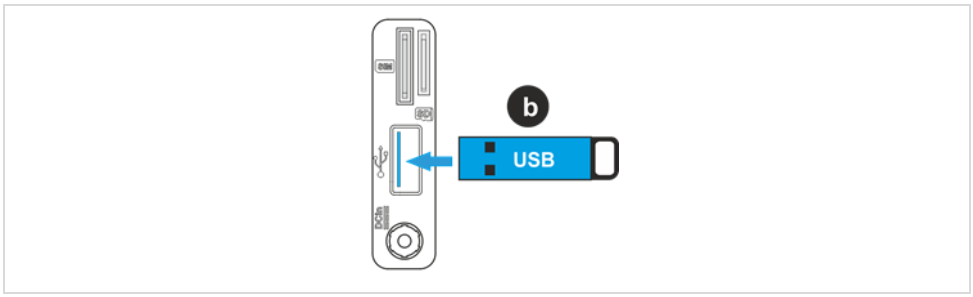
- ▶ Insert/charge battery.
- ▶ Insert/replace microSD card.
- ▶ Insert/replace SIM card.
- ▶ Attach/remove accessories such as dual stylus, leather carry case, hand strap and shoulder strap.

7.1.1 Insert the USB stick (Ex i)

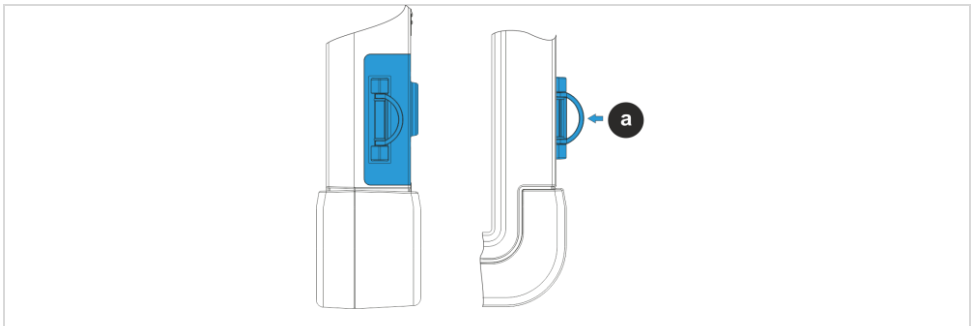
1. Pull out the folding metal bracket from the side of the cover **(a).**



2. Insert the USB stick (Ex i) **(b)** into the USB port (Ex i).

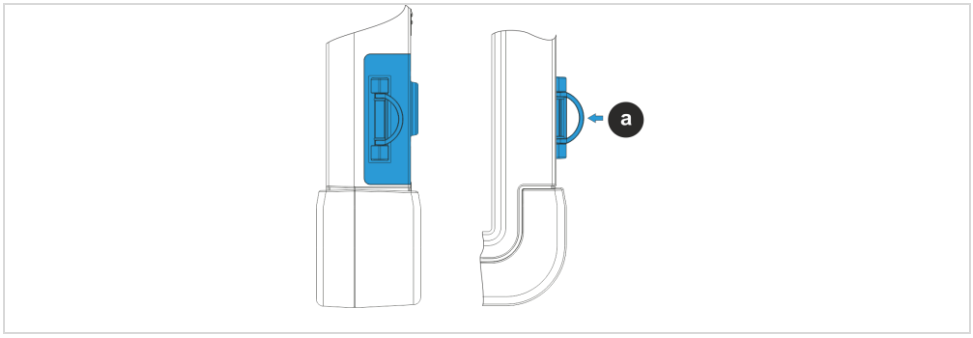


3. Close the side cover when you remove the USB stick (Ex i) **(a).**

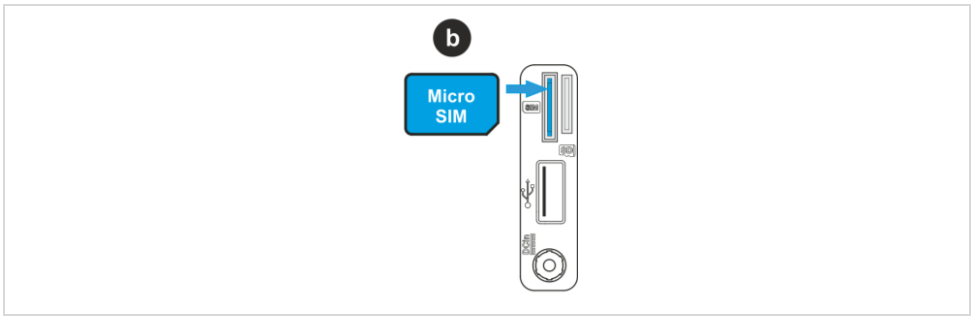


7.1.2 Insert Micro SIM card (only with optionally available LTE module)

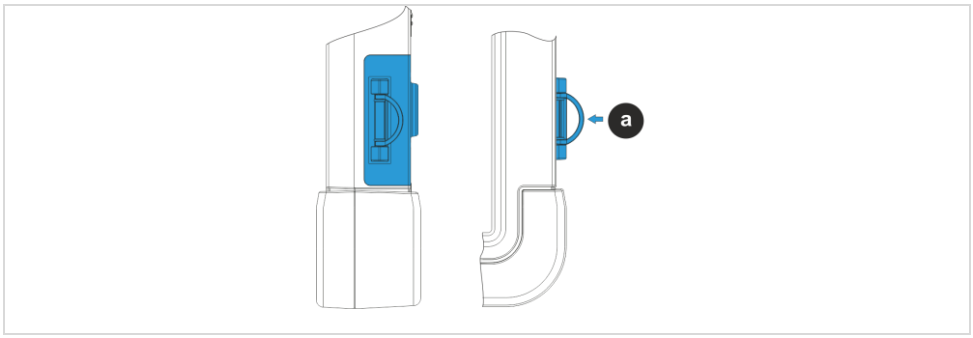
1. Pull out the folding metal bracket from the side of the cover **(a).**



2. Insert the Micro SIM card **(b)** with the contacts toward the rear of the device.

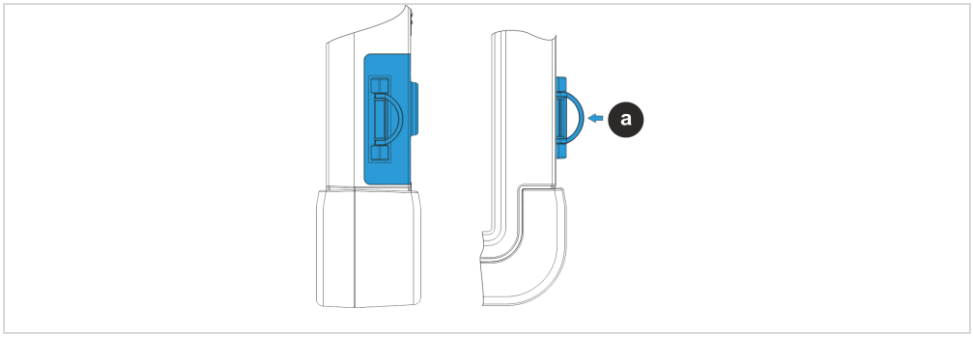


3. Close the side cover **(a)**.

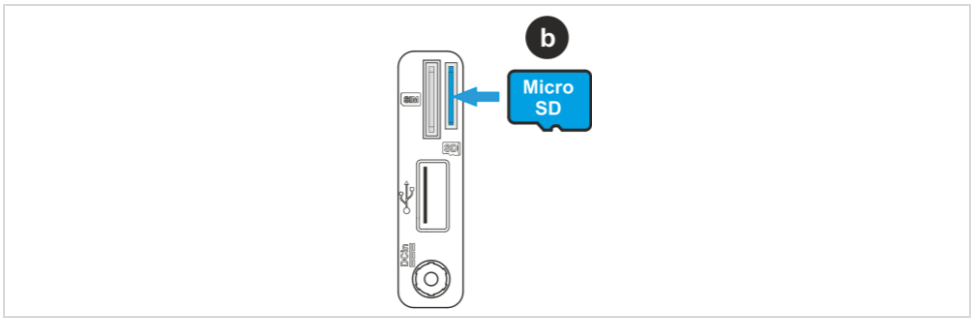


7.1.3 Insert MicroSD card

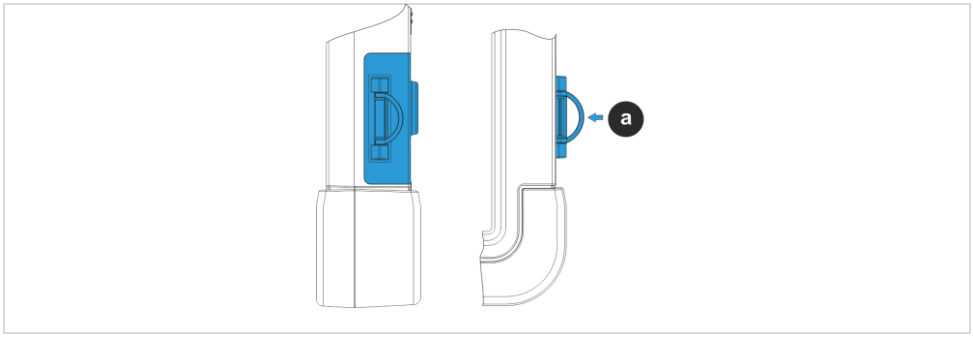
1. Pull out the folding metal bracket from the side of the cover **(a).**



2. Insert the MicroSD card **(b)** with the the gold contacts toward the display.



3. Close the side cover **(a)**.



7.2 Function key combination (reset key)

Before Windows boots up

Combinations	Funktions
Home menu key	F7 - BIOS Setup
Function key (Fn1)	F6 - Recovery Menü
Function key (Fn2)	ESC
Button Volume (+)	Up
Button Volume (-)	Down
Home menu key + Function key (Fn1)	Enter
Home menu key + Button Volume (+)	Right
Home menu key + Button Volume (-)	Left
Home menu key + Button Volume (+) + Function key (Fn2)	BIOS reset (Clear CMOS)

Under Windows

Combinations	Funktions
Home menu key	HotTab Menu (when using Windows 10 IoT Enterprise CBB/SAC) Mobility Center Menu (when using Windows 10 IoT Enterprise LTSC)
Function key (Fn1)	F6 - Recovery Menü
Function key (Fn2)	Default: Activate 1D/2D imager (devices with 1D/2D imager) Preset: Trigger camera (devices without 1D/2D imager)
Button Volume (+)	Louder
Button Volume (-)	Quieter
Button Power	On/Off
Button Volume (+) + Button Volume (-)	Ctrl + Alt - Del
Home menu key + ButtonVolume (+) + Function key (Fn2)	BIOS reset (Clear CMOS)

8 Disposal

Tablet PC and accessories contains metallic and plastic parts and electronic components.

WEEE registration number of the BARTEC GmbH:
DE 95940350

TAs professional electrical devices, our devices are intended exclusively for commercial use, so-called B2B devices, in accordance with the WEEE Directive. The WEEE Directive provides the framework for the treatment of old electrical equipment throughout Europe. This means that you may not dispose of these devices in usual household waste but must dispose of them separately in an environmentally compatible manner and can also bring them to the collection points of public disposal companies. All products purchased from us can be returned to us by our customers for disposal. We will ensure disposal in accordance with the applicable laws. The sender shall bear the costs of postage and packaging.

9 Declaration of Conformity

9.1 EU Declaration of Conformity

EU Konformitätserklärung
EU Declaration of Conformity
Déclaration UE de conformité

№ 11-A1B0-7C0001_A

BARTEC

Wir	We	Nous
	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany	
erklären in alleiniger Verantwortung, dass das Produkt **10.1“ Tablet PC Agile X IS Serie**	declare under our sole responsibility that the product **10.1“ Tablet-PC Agile X IS series**	attestons sous notre seule responsabilité que le produit **10.1“ Tablet-PC Agile X IS sèries**
	Typ 17-A1B*-**/********	
auf das sich diese Erklärung bezieht den Anforderungen der folgenden **Richtlinien (RL)** entspricht **ATEX-Richtlinie 2014/34/EU** **RED-Richtlinie 2014/53/EU** **RoHS-Richtlinie 2011/65/EU** **WEEE-Richtlinie 2012/19/EU** und mit folgenden Normen oder normativen Dokumenten übereinstimmt	to which this declaration relates is in accordance with the provision of the following **directives (D)** **ATEX-Directive 2014/34/EU** **RED-Directive 2014/53/EU** **RoHS-Directive 2011/65/EU** **WEEE-Directive 2012/19/EU** and is in conformity with the following standards or other normative documents	se réferant à cette attestation correspond aux dispositions des **directives (D)** suivantes **Directive ATEX 2014/34/UE** **Directive RED 2014/53/UE** **Directive RoHS 2011/65/UE** **Directive WEEE 2012/19/UE** et est conforme aux normes ou documents normatifs ci-dessous
EN IEC 60079-0:2018 **EN 60079-11:2012** **EN 60079-28:2015** **EN 50303:2000** **EN 62368-1:2014/A11:2017** **EN 50566:2013** **EN 62209-2:2010** **EN 62133:2013** **EN 60825-1:2014 (Laser)** **EN 62471:2008 (LED)**	**EN 300 328 V2.1.1** **EN 300 330 V2.1.1** **EN 301 511 V12.5.1** **EN 301 893 V2.1.1** **EN 301 908-1 V13.1.1** **EN 301 908-2 V13.1.1** **EN 301 908-13 V13.1.1** **EN 303 413 V1.1.1**	**EN 301 489-1 V2.2.3** **Draft EN 301 489-3 V2.1.2** **EN 301 489-17 V3.2.4** **Draft EN 301 489-19 V2.2.0** **Draft EN 301 489-52 V1.1.2** **EN 61000-3-2:2014** **EN 61000-3-3:2013** **EN 61000-6-2:2005** **EN 55024:2010/A1:2015** **EN 55032:2015**
Verfahren der internen Fertigungskontrolle	**Procedure of internal control of production**	**Procédure de contrôle interne de fabrication**
	DEMKO 16 ATEX 1803 Rev.2 **0539, UL International DEMKO A/S, Borupvang 5A, 2750 Ballerup, Denmark**	

CE

Bad Mergentheim, 04.08.2021

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i.V. Michael Krüger
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10 Notes

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