

EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**

[3]

EU-Type Examination Certificate Number: **DEMKO 16 ATEX 1803 Rev. 1**

[4]

Product: **Tablet Computer, Agile X IS, Type 17-A1B*-****/*******

[5]

Manufacturer: **BARTEC GmbH**

[6]

Address: **Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany**

[7]

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. **4788664284.3.1**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013
EN 60079-28:2015**

**EN 60079-11:2012
EN 50303:2000**

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12] The marking of the product shall include the following:

II 1 G Ex ia op is IIC T4 Ga

I M1 Ex ia op is I Ma

II 2 G Ex ia op is IIC T4 Gb

I M2 Ex ia op is I Mb

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2017-01-09

Re-issued: 2018-10-30



Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

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Schedule

[14]

EU-TYPE EXAMINATION CERTIFICATE No. DEMKO 16 ATEX 1803 Rev. 1

- [15] Description of Product
The device covered by this certificate is a handheld tablet computer with touch screen. It is powered by a non-replaceable, rechargeable, internal battery and an optional, replaceable external battery pack. Connection facilities are provided for a USB stick, an SD card, a SIM card, and other external accessories. The device may be configured with a RFID/NFC reader and/or a laser barcode scanner.

Nomenclature for "Agile X IS" Tablet PC, Type 17-A1B*-****-*****:

Type 17- A1B *_****/***** (Certification)


3 or 4 or A – Group II, Zone 1 Certified –  II 2 G Ex ia op is IIC T4 Gb

5 or 6 or B – Group II, Zone 0 Certified –  II 1 G Ex ia op is IIC T4 Ga

C – Groups I and II, Zone 1 Certified –  II 2 G Ex ia op is IIC T4 Gb,  I M2 Ex ia op is I Mb

D – Groups I and II, Zone 0 Certified –  II 1 G Ex ia op is IIC T4 Ga,  I M1 Ex ia op is I Ma

E – Group I, Zone 1 Certified –  I M2 Ex ia op is I Mb

F – Group I, Zone 0 Certified –  I M1 Ex ia op is I Ma

Type 17- A1B *_****/***** (Display)

1 – 10" Capacitive

Type 17- A1B *_****/***** (WAN Carriers)

0 – None

1 or 2 – 4G/LTE

Type 17- A1B *_****/***** (Operating System)

0-9 – Functions not affecting construction

Type 17- A1B *_****/***** (Processor)

0-9 – Functions not affecting construction

Type 17- A1B *_****/***** (Memory)

0-9 – Functions not affecting construction

Type 17- A1B *_****/***** (Memory)

0-9 – Functions not affecting construction

Type 17- A1B *_****/***** (Camera)

0 – None

1 – 5MP Rear, 2MP Front

Type 17- A1B *_****/***** (External Battery)

0 – None

1 – 7.4V / 4200mAh

Type 17- A1B *_****/***** (Data Acquisition)

0 – None

1 – RFID HF/NFC

Type 17- A1B *_****/***** (Scanner)

0 – None

1 – 1D/2D-Imager SE4500

Type 17- A1B *_****/***** (Customer variants)

A-Z/0-9 – Customer Variants not affecting construction

Temperature range:

The ambient temperature range is $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$.

Electrical data:

Powered by internal battery rated 7.4V, 4200mAh, and optional external battery pack, BARTEC Type 17-A1Z0-0006 rated 7.4V, 4200mAh. The external battery pack may be replaced in a hazardous location.

U_m : 25V for the DCin jack and Docking Connector, which may not be used in a hazardous location.

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[14]

Schedule

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Accessories:

The device may be used with the following BARTEC accessories, which are included as part of this certification:

- Type 17-A1Z0-0007 USB Memory Stick. Alternatively, the USB Port has the following intrinsic safety entity parameters:

USB Port:	U _o = 6.07V			
	I _o = 4.46A			
	P _o = 2.15W			
	Co = 28μF	Co = 12μF	Co = 9μF	Co = 6.9μF
	Lo = 2μH	Lo = 5μH	Lo = 7μH	Lo = 9μH

- Type 17-A1Z0-00** SD Memory Card, where ** is 08, 09, or 10. Alternatively, the SD Card Port has the following intrinsic safety entity parameters:

SD Card Port:	U _o = 4.63V
	I _o = 2.76A
	P _o = 1.18W
	Co = 79μF
	Lo = 2μH

- Expansion Port – The Expansion Port has the following intrinsic safety entity parameters. Under this certificate, the Agile X IS has been subjected to additional mechanical tests with the BARTEC Model 17-A1Z0-0005 HART Module connected. The Model 17-A1Z0-0005 HART Module is certified under EPS 15 ATEX 1069X.

Expansion Port:	U _o = 8.11V	
	I _o = 5.69A	
	P _o = 8.04W	
	Co = 7.6μF	Co = 5.3μF
	Lo = 2μH	Lo = 5μH

Routine tests:

None.

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17]

Specific conditions of use:

None.

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The Agile X IS, Type 17-A1B*-*/*/*/* has in addition passed the tests for Ingress Protection to IP 65 in accordance with EN60529:1991+A1:2000+A2:2013.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.