

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx UL 16.0160	Page 1 of 4	Certificate history:		
Status:	Current	Issue No: 2	Issue 1 (2018-10-30) Issue 0 (2017-01-09)		
Date of Issue:	2021-06-30				
Applicant:	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany				
Equipment:	Intrinsically Safe Tablet Computer - Ag	ile X IS, Type 17-A1B*-****/*******			
Optional accessory:	Type 17-A1Z0-0007 USB Memory Stick, Type 17-A1Z0-00** SD Memory Card				
Type of Protection:	Intrinsic Safety "ia" and Optical Radiat	ion "op is"			
Marking:	Ex ia op is IIC T4 Ga				
	Ex ia op is IIC T4 Gb				
	Ex ia op is I Ma				
	Ex ia op is I Mb				
	-20°C ≤ Ta ≤ +50°C				
Approved for issue of Certification Body:	n behalf of the IECEx	Erin LaRocco			
Position:		Staff Engineer			
Signature: (for printed version)		Erin Lakocco			
Date:		2021-06-30			
2. This certificate is not	chedule may only be reproduced in full. transferable and remains the property of the issuing enticity of this certificate may be verified by visiting w	j body. www.iecex.com or use of this QR Code.			
Certificate issued	by:				
UL LLC 333 Pfingsten R	oad		(U)		

333 Pfingsten Road Northbrook IL 60062-2096 United States of America

TH	IECEx Certificate of Conformity			
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Date of issue:	2021-06-30		Issue No: 2	
Manufacturer:	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany			
Additional manufacturing locations:				
This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended				
STANDARDS : The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards				
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part	0: Equipment - General requireme	ents	
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"			
IEC 60079-28:2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation			
This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.				
TEST & ASSESSMENT REPORTS: A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:				
Test Reports:				
US/UL/ExTR16.0185	/00 US/UL/	ExTR16.0185/01	US/UL/ExTR16.0185/02	

Quality Assessment Report:

DE/TUN/QAR06.0017/13



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

2021-06-30

Issue 1: Added alternative enclosure material, Group I certification and intrinsic safety entity parameters to various external ports. Revised nomenclature to designate Group I models, increased the ingress protection to IP65, various minor electrical and mechanical changes.

Issue 2: The manufacturer updated the certification to the latest edition of IEC 60079-0.

Annex:

Annex to IECEX UL 16.0160 Issue 2.pdf



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TYPE DESIGNATION

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

Type 17- A1B *-****/******** (Certification) 3 or 4 or A – Group II, Zone 1 Certified – Ex ia op is IIC T4 Gb 5 or 6 or B - Group II, Zone 0 Certified - Ex ia op is IIC T4 Ga C – Groups I and II, Zone 1 Certified – Ex ia op is IIC T4 Gb, Ex ia op is I Mb D – Groups I and II, Zone 0 Certified – Ex ia op is IIC T4 Ga, Ex ia op is I Ma E – Group I, Zone 1 Certified – Ex ia op is I Mb F - Group I, Zone 0 Certified - Ex ia op is I Ma Type 17- A1B *-<u>****/********</u> (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 *-***/<u>*</u>******* (Memory) 0-9 – Functions not affecting construction Type 17- A1B *-***/*<u>*</u>******* (Memory) 0-9 - Functions not affecting construction 0 – None 1 – 5MP Rear, 2MP Front Type 17- A1B *-****/************************* (External Battery) 0 – None 1 – 7.4V / 4200mAh 0 – None 1 - RFID HF/NFC Type 17- A1B *-***/************ (Scanner) 0 – None 1 – 1D/2D-Imager SE4500 A-Z/0-9 – Customer Variants not affecting construction

PARAMETERS RELATING TO THE SAFETY

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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External connections and 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:	Uo = 6.07V			
	lo = 4.46A			
	Po = 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	Uo = 4.63V
Port:	lo = 2.76A
	Po = 1.18W
	Co = 79µF
	$Lo = 2\mu H$

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 separately certified under IECEx EPS 15.0065X; it and its electrical connection to the Agile X IS are not covered as part of this certificate.

Expansion Port:	Uo = 8.11V	
	lo = 5.69A	
	Po = 8.04W	
	Co = 7.6µF	Co = 5.3µF
	Lo = 2µH	Lo = 5µH



Certificate No.:

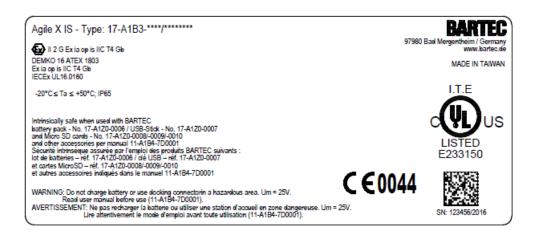
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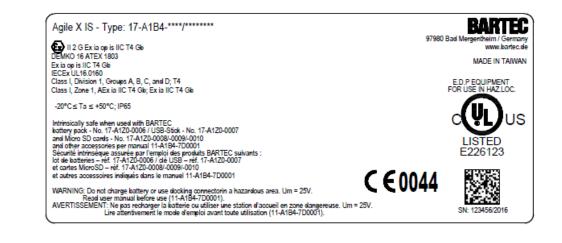
MARKING

Marking has to be readable and indelible; it has to include the following indications:

TABLET-PC - Type 17-A1B3-****/*******



TABLET-PC - Type 17-A1B4-****/*******





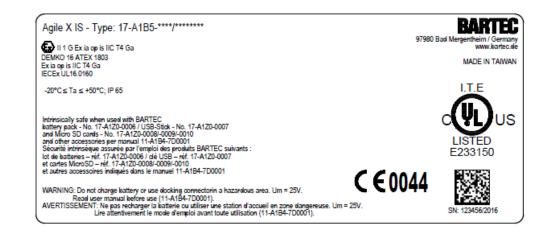
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IECEx UL 16.0160

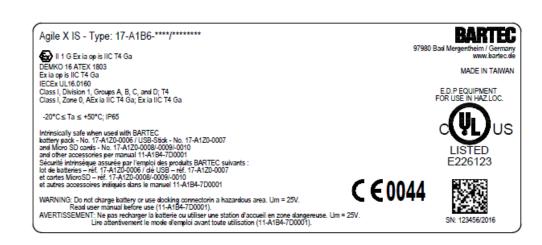


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TABLET-PC - Type 17-A1B5-****/*******



TABLET-PC - Type 17-A1B6-****/*******





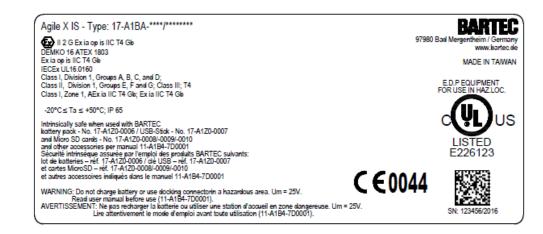
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IECEx UL 16.0160

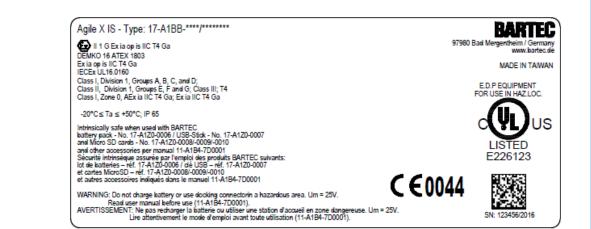


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TABLET-PC - Type 17-A1BA-****/*******



TABLET-PC - Type 17-A1BB-****/*******





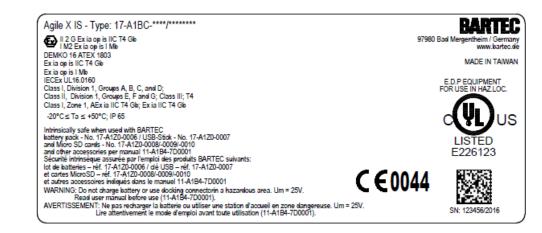
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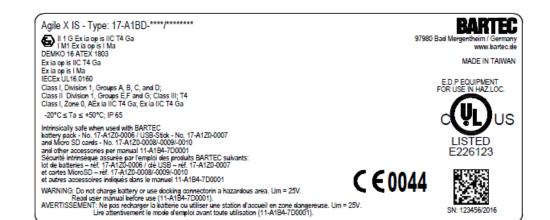


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TABLET-PC - Type 17-A1BC-****/*******



TABLET-PC - Type 17-A1BD-****/*******





Certificate No .:

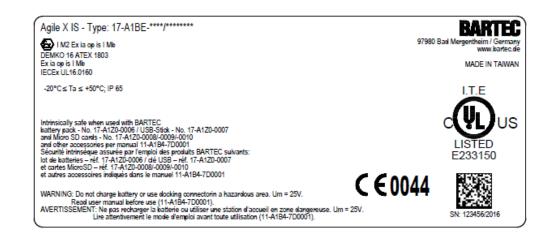
IECEx UL 16.0160



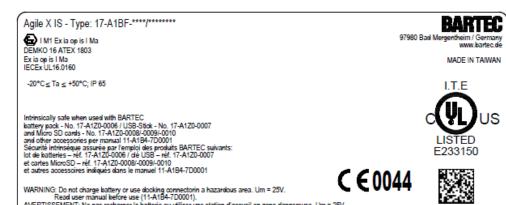
SN: 123456/2016

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TABLET-PC - Type 17-A1BE-****/*******



TABLET-PC - Type 17-A1BF-****/*******



WARNING: Do not charge battery or use docking connectorin a hazardous area. Um = 25V. Read user manual before use (11-A184-7D0001). AVERTISSEMENT: Ne pas recharger la batterie ou utiliser une station d'accueil en zone dangereuse. Um = 25V. Lire attentivement le mode d'emploi avant toute utilisation (11-A184-7D0001).