



(1) **EU-TYPE EXAMINATION CERTIFICATE**
(Translation)

(2) Equipment or Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 13 ATEX 2019 X

Issue: 1

(4) Product: Mobile Computer Typ MC92N0ex Typ 17-A1A3-****/*****

(5) Manufacturer: BARTEC GmbH

(6) Address: Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the 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 the confidential Test Report PTB Ex 19-28109.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-5:2015, EN 60079-28:2015

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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 in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

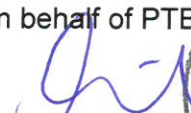
(12) The marking of the product shall include the following:

 **II 2 G Ex q op is [ib] IIC T4 Gb or II 2 G Ex q [ib] IIC T4 Gb or
II 2 G Ex q op is [ib] IIB T4 Gb or II 2 G Ex q [ib] IIB T4 Gb**

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, April 29, 2019

On behalf of PTB:


Dr.-Ing. F. Lienesch
Direktor und Professor





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SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 13 ATEX 2019 X, Issue: 1**

(15) Description of Product

The mobile computers, MC92N0ex type series 17-A1A3-****/***** are hand-held electrical apparatus. They are used for the mobile acquisition, processing and radio transmission of data inside hazardous areas. They are used in hazardous areas requiring the use of equipment of equipment group II, category 2G.

The relationship between the marking and the mobile computer is made according to the following table:

Mobile Computer MC92N0ex type series	Marking
17-A1A3-***0/*****, 17-A1A3-R**2/*****, 17-A1A3-R**4/*****, 17-A1A3-R**5/*****, 17-A1A3-R**6/*****	 II 2 G Ex q op is [ib] IIC T4 Gb
17-A1A3-R**1/*****, 17-A1A3-R**3/*****, 17-A1A3-R**A/*****, 17-A1A3-R**B/*****	 II 2 G Ex q [ib] IIC T4 Gb
17-A1A3-R**7/*****, 17-A1A3-R**8/*****	 II 2 G Ex q op is [ib] IIB T4 Gb
17-A1A3-R**C/*****, 17-A1A3-R**D/*****	 II 2 G Ex q [ib] IIB T4 Gb

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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

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Type key:

Type-No.	17	-	A	1	A	3	-	*	*	*	*	/	*	*	*	*	*	*	*	
Digit- No	A		B	C	D	E		F	G	H	I		J	K	L	M	N	O	P	Q

Explanations of digits:

Digit	Digit for:	Variations:	Description
A	Product range	17	Electronic device
B	Device group	A	Data capture
C	Ex-Protection	1	Ex I and/or Ex II Category 2/Div 1
D	Type	A	MC 92 Series
E	Certificate	3	ATEX / IECEx Zone 1
F	WAN	0 R	without Reader
G	Version	G K	Gun Brick
H	Scan engine	0 3 5 8 A J	without Blockbuster Imager (SE4500-SR) Blockbuster Imager (SE4500-HD) Blockbuster Imager (SE4500-DL) Standard Range Scan Engine (SE965) Long Range Scan Engine (LORAX, SE1524)
I	Reader	0 1 2 3 4 5 6 7 8 A B C D	without RFID LF int. Module RFID LF ext. Module RFID HF int. Module RFID HF ext. Module RFID UHF [US] ext. Module RFID UHF [EU] ext. Module RFID UHF [US] ext. Module with ext. antenna RFID UHF [EU] ext. Module with ext. Antenna RFID UHF [US] int. Module RFID UHF [EU] int. Module RFID UHF [US] int. Module with ext. Antenna RFID UHF [EU] int. Module with ext. Antenna
J	Display	S	Color VGA
K, L, M, N, O, P, Q	Digits without influence to explosion protection		

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Electrical data

Supply

in type of protection Intrinsic Safety Ex ib IIC
for mobile computer MC92N0ex type series
17-A1A3-***0/***** , 17-A1A3-R**1/*****
17-A1A3-R**2/***** , 17-A1A3-R**3/*****
17-A1A3-R**4/***** , 17-A1A3-R**5/*****
17-A1A3-R**6/***** , 17-A1A3-R**A/*****
17-A1A3-R**B/*****

in type of protection Intrinsic Safety Ex ib IIB
for mobile computer MC92N0ex type series
17-A1A3-R**7/***** , 17-A1A3-R**8/*****
17-A1A3-R**C/***** , 17-A1A3-R**D/*****

only from the appropriate battery type 17-A1Z0-0001
7,4 V, 2200 mAh or 2400 mAh
7,2 V, 2880 mAh

Headset-connector
(microphon + loudspeaker)

in type of protection Intrinsic Safety Ex ib IIC
for mobile computer MC92N0ex type series
17-A1A3-***0/***** , 17-A1A3-R**1/*****
17-A1A3-R**2/***** , 17-A1A3-R**3/*****
17-A1A3-R**4/***** , 17-A1A3-R**5/*****
17-A1A3-R**6/***** , 17-A1A3-R**A/*****
17-A1A3-R**B/*****

in type of protection Intrinsic Safety Ex ib IIB
for mobile computer MC92N0ex type series
17-A1A3-R**7/***** , 17-A1A3-R**8/*****
17-A1A3-R**C/***** , 17-A1A3-R**D/*****

Maximum values:

$$U_o = 8,6 \text{ V}$$

$$\Sigma I_o = 354 \text{ mA}$$

$$P_o = 479 \text{ mW}$$

characteristic linear

C_i and L_i are negligibly small

Maximum values of together occurring reactances:
(acc. ISPART 6.0)

$$C_o = 930 \text{ nF}$$

$$L_o = 460 \text{ } \mu\text{H}$$

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SD-memory cards

in type of protection Intrinsic Safety Ex ib IIC
 for mobile computer MC92N0ex type series
 17-A1A3-***0/*****; 17-A1A3-R**1/*****
 17-A1A3-R**2/*****; 17-A1A3-R**3/*****
 17-A1A3-R**4/*****; 17-A1A3-R**5/*****
 17-A1A3-R**6/*****; 17-A1A3-R**A/*****
 17-A1A3-R**B/*****

in type of protection Intrinsic Safety Ex ib IIB

for mobile computer MC92N0ex type series
 17-A1A3-R**7/*****; 17-A1A3-R**8/*****
 17-A1A3-R**C/*****; 17-A1A3-R**D/*****

SD memory cards 17-28BE-F006/xxxx may be used in
 the SD memory card holder, e.g.:

512	MB	Art.Nr. 17-28BE-F006/0001
1	GB	Art.Nr. 17-28BE-F006/0002
2	GB	Art.Nr. 17-28BE-F006/0003
4	GB	Art.Nr. 17-28BE-F006/0004
8	GB	Art.Nr. 17-28BE-F006/0005
16	GB	Art.Nr. 17-28BE-F006/0006
32	GB	Art.Nr. 17-28BE-F006/0007

Micro SD memory cards types 17-A1Z0-0008/xxxx, 17-
 A1Z0-0008, 17-A1Z0-0009 and 17-A1Z0-0010 may be
 used in the Micro SD memory card holder, e.g.:

512	MB	Art.Nr. 17-A1Z0-0008/0001
1	GB	Art.Nr. 17-A1Z0-0008/0002
2	GB	Art.Nr. 17-A1Z0-0008/0003
4	GB	Art.Nr. 17-A1Z0-0008/0004
8	GB	Art.Nr. 17-A1Z0-0008
16	GB	Art.Nr. 17-A1Z0-0009
32	GB	Art.Nr. 17-A1Z0-0010

WLAN / Bluetooth

radiated transmitter power 210 mW

HF-output power

radiated transmitter power max. 2 W

Changes with respect to previous editions

Updating of the standard EN 60079-5:2015 to the latest version. Inclusion of standard EN 60079-28:2015 to the test specification. Adaptation of the marking. Extension of the electrical data with the inclusion of Micro SD-cards and the extension of the available batteries in the battery pack. Further changes concern the internal structure.

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(16) Test Report PTB Ex19-28109

(17) Specific conditions of use

1. If the screen protector type 17-A1Z0-0003 is used as an option the mobile computer shall only be operated in hazardous areas in gas group IIB.
2. The battery type 17-A1Z0-0001 shall be charged outside the hazardous area only.
3. The exchange of keyboard and SD/micro SD memory card shall only be performed outside of the hazardous area – (see notes in the manual).
4. The mobile computer MC92N0ex type series 17-A1A3-****/***** shall not be used in strong charge-generating processes. These can occur e.g. during electrostatic painting, in pneumatically conveyed dust, flowing liquids and droplets, mechanically driven belts, brushes and foils etc.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, April 29, 2019


Dr.-Ing. F. Lienesch
Direktor und Professor

