



Product Service



(1) Type Examination Certificate

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

(3) Type Examination Certificate Number:

TPS 23 ATEX 123637 0002 X Rev. 01

(4) Equipment: Fully-Rugged Tablet PC Model: R8

(5) Manufacturer: Twinhead International Corp.

(6) Address: 9F., No. 550, Ruiguang Rd., Neihs Dist., Taipei City,
11492 Taiwan

(7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) TÜV SÜD Product Service GmbH 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 reports with no. 61.500.23.020.02

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

EN IEC 60079-0:2018 EN 60079-11:2012

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This 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 this certificate.

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

 **II 3G Ex ic IIC T4 Gc**
II 3D Ex ic IIIB T135°C Dc

Certification Body,

München, 22.05.2024

Gareth Liao



Page 1 / 3

Certificates without signature shall not be valid. The Certificates may only be circulated in full including its schedule(s). Extracts or alterations are subject to approval by TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. The document is administrated under the following number: EX8A 123637 0002 Rev. 01

Doc. Name: Temp ExNBG-TPS-Type Cert Rev. 02

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Product Service

Schedule

Type Examination Certificate no.

TPS 23 ATEX 123637 0002 X Rev. 01

Certificate History

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue.	61.500.23.020.01	18.01.2024
Rev. 01	Second issue. Ambient temperature 0°C to 40°C change to -10°C to 60°C and updated marking to II 3G Ex ic IIC T4 Gc II 3D Ex ic IIIB T135°C Dc	61.500.23.020.02	22.05.2024

Description of equipment:

The Fully-Rugged Tablet PC R8 is Twinhead's ruggedized tablet of the rugged portfolio. It's design for mobile computing power use in industrial environment. It has a touch screen, an ambient light sensor, front and rear cameras, a microphone, a speaker, a battery pack and a leather bag.

The tablet PC is self-contained and supplied by a Lithium battery pack R8-H (7.6V, 7200mAh) or R8-M (7.6V, 3600mAh). Its protection type is intrinsic safety "ic" and it is suitable for use in gas atmosphere, Zone 2, Group IIC and dust atmosphere Zone 22, Group IIIB

Technical data

Electrical rating	Battery power: 7.6V Type: R8-H, R8-M
Ambient temperature	-10 °C ≤ Tamb ≤ +60 °C
Degree of protection by enclosure	IP20 (tested according to EN 60529)

Warning label

- WARNING - USE ONLY JAPONE TECHNOLOGY INC. R8-H (7200mAh) OR R8-M (3600mAh) BATTERIES
- WARNING - DO NOT REPLACE OR CHARGE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
- WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

Installation instruction

See Instructions manual provided by the manufacturer and part of this certification.
See also (17) Special conditions for safe use.

Page 2 / 3

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(13)

(14)

(16) Test report(s): 61.500.020.02

Routine tests: None.

Document List

File No.	File name	Page	Rev.	Date
82C+B43000+01	R8 Power Block Diagram for ATEX	1	1	2023-08-30
R8 System BOM List	R8 system BOM list	11	-	2023-08-28
R8 PCBA BOM List	R8_PCBA BOM_ADL_R1_ATEX_0828	16	-	2023-08-28
82C+B43000+01	R8AA1-CKT-DL-ADL-R1- UPDATE_230830	41	1	2023-08-30
37+B430A5+01	R8AA1_PCB_DL_ADL_GERBER_ R1	26	B	2022-11-01
IC temperature_list	R8_IC list	1	-	2023-07-26
Rating of components list_R8-001	Rating of components list	1	-	2023-08-29
WI-LF1-001	R8 PCBA Coating_SOP	9	A	2023-07-17
K4101	* R8AA1_ATEX RATING LABEL	1	-	2024-04-24
F4922	R8 FCC rating label	1	-	2023-04-07
ATEX-R8-01	* R8_User Manual	74	R2	2024-05-21
ATEX-R8-02	* DECLARATION OF CONFORMITY(Draft version)	1	R2	2024-05-21

A copy of the full documentation is kept confidentially at TÜV SÜD.

An * is included before the file name of documents that are new or revised.

(17) Special conditions of safe use:

1. The tablet must be used with the Leather Bag which provided by Twinhead and well-packed according to the user manual.
2. The tablet shall not be connected to any external device.
3. The tablet battery can only be charged in safety area with power adaptor provided by Twinhead which model & rating is FSP065-RBBN3, 19V, 3.42A, 65W.

(18) Essential health and safety requirements:

Assured by compliance with standards set out in (9).

Page 3 / 3

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