



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 0001 X Rev. 01

(4) Equipment: Fully-Rugged Tablet PC Model: • U11
• U11I

(5) Manufacturer: Twinhead International Corp.

(6) Address: 9F., No. 550, Ruiguang Rd., Neihu 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. 61.500.23.011.02

(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,

Gareth Liao

München, 22.05.2024

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 0001 Rev. 01

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

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 München • Germany

TÜV®



Product Service

Schedule

Type Examination Certificate no.

TPS 23 ATEX 123637 0001 X Rev. 01

Certificate History

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue.	61.500.23.011.01	28.12.2023
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	61.500.23.011.02	22.05.2024

(15) Description of equipment:

The Fully-Rugged Tablet PC U11/U11I is Twinhead's ruggedized tablet in the rugged portfolio. Its design is engineered for industrial environments where customers need mobile computing power.

The tablet PC is self-contained, power-supplied by a Lithium battery pack X11BA-H (7.6V, 9600mAh) or X11BA-M (7.6V, 4800mAh). Its protection type is intrinsic safety "ic" and suitable for use in gas atmospheres Zone 2, Group IIC and dust atmospheres Zone 22, Group IIIB.

Model difference

The U11 and U11I is identical. Its difference depends on where the sales area.
See the User Manual for further details.

Technical data

Electrical rating	Battery power: 7.6V Type: X11BA-H, X11BA-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. X11BA-H(9600mAh) OR X11BA-M(4800mAh) BATTERIES.
- WARNING – DO NOT REPLACE OR CHARGE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
- WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

Page 2 / 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 0001 Rev. 01

jpc Name Temp ExNBG-TPS Type-Cert-Rev 02



Product Service

Schedule

Type Examination Certificate no.

TPS 23 ATEX 123637 0001 X Rev. 01

Installation instruction

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

(16) Test report(s): 61.500.23.011.02

Routine tests: None.

Document List

File No.	File name	Page	Rev.	Date
82C+B46000+00B	U11G3(X11G3) POWER BLOCK DIAGRAM_0728	1	B	2023-07-18
System BOM List _U11G3	U11G3(X11G3) System BOM List	11	-	2023-08-02
PCBA BOM List _U11G3	U11G3 PCBA BOM List	10	-	2023-08-02
82C+B46000+00B	U11G3(X11G3)_CKT_ADL_R B_ATEX_0718	49	B	2023-07-11
37+B460A5+00B	X11G3_PCB_ADL Gerber_RB	26	B	2023-04-27
IC List of small components Temperature_U11G3-001	IC temperature_list	1	-	2023-07-26
Rating of components list_U11G3-001	Rating of components list	4	-	2023-07-27
WI-LF1-002	U11 PCBA Coating_SOP	9	A	2023-07-26
K4101	* ATEX RATING LABEL	1	-	2024-04-24
J4877	U11 FCC rating label	1	-	2023-04-07
ATEX-U11-01	* U11G3_User Manual_ATEX	76	R2	2024-05-21
ATEX-U11-03	* 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. User must use tablet with the Leather Bag well-packed which provided by Twinhead and cannot remove it in explosion hazardous area.
2. The tablet shall not be connected to or disconnected from any external devices or interfaces in explosive atmosphere.
3. Apply only the power adaptors 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

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 0001 Rev. 01

Doc Name: Temp ExNBG TPS Type Cert Rev 02

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 München • Germany

TÜV®