

(1) **Type Examination Certificate**



Product Service

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

(3) Type Examination Certificate Number:



TPS 16 ATEX 96741 001 U

(4) Component: GSM/GPRS module - Type: M95
(5) Manufacturer: Quectel Wireless Solutions Co., Ltd.
(6) Address: Office 501, Building 13, No. 99 Tianzhou Road, Xuhui district, Shanghai 200233, PR. China

(7) This component 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, Notified Body No. 0123 in accordance with the Council Directive 2014/34/EU of February 26th 2014, certifies, based on a voluntary testing, that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive.

The examination and test results are recorded in the confidential report with no. 70.520.15.023.01-00.

(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

(10) The sign "U" placed after the certificate number indicates that the certificate must not be mistaken with a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of equipment or protective system.

(11) This Type Examination Certificate relates only to the design and the construction of the specified component in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

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



II 3 G

Ex ic IIB Gc

Certification Office Of Explosion Protection

München, 03.08.2016

Mr. Zhixiong Han



Page 1 / 2

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 TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. The document is administrated under the following number: EX8A 16 07 96741 001



Product Service

Schedule

(13)

(14) **Type Examination Certificate** **TPS 16 ATEX 96741 001 U**(15) Description of component:

The GSM/GPRS Module, Type M95, is an Ex component intended for integration in an equipment to provide a wireless communication. It is a populated multilayer PCB with pins for soldering into the final apparatus.

Technical data:

Gasgroup IIB

$-40^{\circ}\text{C} \leq T_{\text{serv}} \leq 80^{\circ}\text{C}$

$U_i \text{ max} \leq 4.2\text{V}$

$I_i \text{ max} \leq 2.1\text{A (peak)}$

$P_i \text{ max: } \leq 2\text{W}$

$C_i = 40.6\mu\text{F}$

$L_i = 30.3\text{nH}$

(16) Test report: 70.520.15.023.01-00(17) Special conditions for safe use:

1. The sign "U" placed after the certificate number indicates that the certificate must not be mistaken with a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of equipment or protective system.

2. The maximum input parameters stated above shall be considered during installation. The rules for interconnection of intrinsically safe circuits according EN/IEC 60079-11 and EN/IEC 60079-14 have to be taken into account.

3. The module must be powered by a power supply with an output that meets the requirements of the EN/IEC 60079-11 and shall be installed in an enclosure that meets at least IP 20.

4. The temperature class after incorporation into the final equipment complies with T4 if the maximum input does not exceed 2 W, if other heating sources are not present and if installed within its service temperatures limitations as specified. This requirement supplements to all above mentioned criteria and requirements.

5. The antenna radiating power shall be considered in selecting the antenna system. The maximum radiating power shall not exceed following limits:

3.5W	For Group IIB
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(18) Essential health and safety requirements:

Met by standards.

Page 2 / 2

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