

TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- [3] Type Examination Certificate Number: **UL 21 ATEX 2477X Rev. 1**
- [4] Product: **Kona Mega Gateway**
- [5] Manufacturer: **TEKTELIC Communications Inc.**
- [6] Address: **7657 10th Street NE, Calgary, AB T2E 8X2 Canada**
- [7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.
- The examination and test results are recorded in confidential report no. **US/UL/ExTR21.0078/01.**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

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

EN IEC 60079-7:2015/A1:2018
EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

- [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 Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.
- [12] The marking of the product shall include the following:

 **II 3 G Ex ec [ic] IIC T5 Gc**

 **II 3 D Ex tc [ic] IIIC IP67 T100°C Dc**

Certification Manager
Thomas Wilson

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2021-07-30
Re-issued: 2023-05-30

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com



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Schedule
TYPE EXAMINATION CERTIFICATE No.
UL 21 ATEX 2477X Rev. 1

[15]

Description of Product

The Kona Mega Gateway is outdoor pole/wall mounted wireless base stations. All models are similar to each other with the differences shown in the user manual. The enclosure is tested and considered as IP67 rated.

The equipment is either to be powered by a certified Power over Ethernet (PoE) IEEE 802.3at standard, SELV Limited Power Source (LPS) or by a DC Input SELV Source Earthed, Limited Power Source (LPS).

All circuits are secondary, providing functional insulation and all components are mounted on printed wiring board with a flame rating of minimum V-1.

No operator access to voltages exceeding 48 Vdc nominal, 37 to 57 Vdc operating range (after 42 V maximum start-up threshold). Positive or negative ground referenced feed. SELV & LPS source required. Maximum 10A input overcurrent protection.

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015.

Temperature range

The ambient temperature range is -40°C to +60°C.

Electrical data

Ratings : 48 Vdc, 0.9 A

LoRa antenna gain ≤ 6 dBi

Cellular RF antenna gain ≤ 2 dBi

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

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Specific conditions of use:

The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9

Additional information

The Kona Macro Gateway has in addition passed the tests for Ingress Protection to IP 67 in accordance with EN60529:1991+A1:2000+A2:2013.

The TEKTELIC Communications Inc trade name will be used as the company identifier on the marking label.