IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx UL 21.0074X**

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Certificate history:
Issue 0 (2021-07-30)

Status: **Current**

Issue No: 1

Date of Issue: 2023-05-30

Applicant: **TEKTELIC Communications Inc.**
7657 10th Street NE
Calgary, Alberta T2E 8X2
Canada

Equipment: **Kona Mega Gateway, Models T0007209, T0007210, T0007211, T0007212, T0007213, T0007284, T0007285, T0007286, T0007287, T0007288.**

Optional accessory:

Type of Protection: **Increased Safety "ec", Intrinsic Safety "ic", Dust Ignition Protection by Enclosure "tc"**

Marking: Ex ec [ic] IIC T5 Gc

Ex tc [ic] IIIC T100°C Dc

-40°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx Certification Body: **Katy A. Holdredge**

Position: **Senior Staff Engineer**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America

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Certificate No.: **IECEx UL 21.0074X**

Date of issue: 2023-05-30 Issue No: 1

Manufacturer: **TEKTELIC Communications Inc.**
7657 10th Street NE
Calgary, Alberta T2E 8X2
Canada

Manufacturing locations:

TEKTELIC Communications Inc.
7657 10th Street NE
Calgary, Alberta T2E 8X2
Canada

August Electronics Inc.
1810 Centre Ave
Calgary, AB T2E 0A6
Canada

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

US/UL/ExTR21.0078/00 US/UL/ExTR21.0078/01

Quality Assessment Report:

US/UL/QAR21.0004/01

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:
The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1: Update of several drawings and minor editorial correction to the certificate.

Annex:

Annex to IECEx UL 21.0074X Issue 1.pdf

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Annex to Certificate No.: IECEx UL 21.0074X Issue No.: 1

PARAMETERS RELATING TO THE SAFETY

Ratings = 48 Vdc, 0.9 A

LoRa antenna gain ≤ 6 dBi

Cellular RF antenna gain ≤ 2 dBi

MARKING

Marking has to be readable and indelible; it has to include the following indications:

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