Risk Assessment and Risk Reduction for DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

Applicant: Lumi United Technology Co., Ltd Manufacturer: Lumi United Technology Co., Ltd

Product name: Single Switch Module T1 (No Neutral)

Brand name: Aqara Model name: SSM-U02

Software version: 0.0.0.0024

Hardware version: AC: T2; DC: T1

We Lumi United Technology Co., Ltd have performed the risk assessment procedure and found that our product in the case of a transmitter, when the transmitter is properly installed, maintained and used for its intended purpose it generates radio waves emissions that do not create harmful interference, while unwanted radio waves emissions generated by the transmitter (e.g. in adjacent channels) with a potential negative impact on the goals of radio spectrum policy should be limited to such a level that, according to the state of the art, harmful interference is avoided; and, in the case of a receiver, it has a level of performance that allows it to operate as intended and protects it against the risk of harmful interference, in particular from shared or adjacent channels, and, in so doing, supports improvements in the efficient use of shared or adjacent channels and also evaluated the health and safety risk and other aspects of public interest protection.

We have tried to avoid the risk by designing inherent benign, pre-testing against relevant requirement and adding more precaution steps to enhance the quality, also will adding warning statement in the relevant documents to avoid non-proper installation which will cause non- intended purpose or usage.

We also seek to the professional authority to test and evaluate our products to get the official certificate, which will prove that our product meet the revenant essential requirements, helping the user to understand that our product is low risk.

Risk Analysis

| | | Risk Item | Analysis |
|---------------------------------------|---|---|---|
| Environmental Condition | | 35 °C | Meet the requirement of User |
| | 1 | | manual |
| | 2 | Operating Humidity | Meet the requirement of User |
| | 2 | 0% ~ 95% | manual |
| | 3 | Operating Voltage | Meet the requirement of |
| | | | manufacturer's design |
| | | 50/60Hz,Min 3W,Max 1250W | |
| | | (Resistive Load) Intended Used | Office or Home used |
| | • | | Office of Fiorne asea |
| RF (ZIGBEE) | 1 | RF Output Power | Meet the requirements of Test Standards ETSI EN 300 328 V2.2.2 |
| | 2 | Power Spectral Density | Meet the requirements of Test Standards ETSI EN 300 328 V2.2.2 |
| | | Occupied Channel Bandwidth | Meet the requirements of Test Standards ETSI EN 300 328 V2.2.2 |
| | 4 | the out-of-band domain | Meet the requirements of Test Standards ETSI EN 300 328 V2.2.2 |
| | | | Meet the requirements of Test Standards ETSI EN 300 328 V2.2.2 |
| | | | Meet the requirements of Test Standards |
| | | | ETSI EN 300 328 V2.2.2 Meet the requirements of Test Standards |
| | 7 | Receiver spurious emission | ETSI EN 300 328 V2.2.2 |
| EMC | 1 | EMI Performance | Meet the requirements of Test Standards EN 301 489-1 V2.2.3 |
| | | | Draft EN 301 489-17 V3.2.2 |
| | 2 | EMS Performance | Meet the requirements of Test Standards EN 301 489-1 V2.2.3 |
| | | | Draft EN 301 489-17 V3.2.2 |
| | 3 | Under Vehicular Environment | Meet the requirements of Test Standards |
| | 1 | Electric Shock Hazards | Inherent Regulating Network Protected (Meet Test Standard |
| | | | EN 60669-2-1:2004 + A1: 2009 + A12:2010 |
| | | | (used in conjunction with EN 60669-1:2000 + A2:2008) |
| | | | Inherent Regulating Network Protected (Meet |
| Safety | 2 | | Test Standard EN 60669-2-1:2004 + A1: 2009 + A12:2010 |
| | | | (used in conjunction with EN 60669-1:2000 + |
| | | | A2:2008) Inherent Regulating Network Protected (Meet |
| | 3 | | Test Standard |
| | | Fire Hazards | EN 60669-2-1:2004 + A1: 2009 + A12:2010 (used in conjunction with EN 60669-1:2000 + |
| | | | A2:2008) |
| | 4 | | Fulfilled the requirements of Test Standards |
| RF Exposure | | RF Health | EN 62479:2010 |
| | | | EN 50663:2017 |
| No List On Designated Standards | | The compliance assessment uses designated standards where | |
| | 1 | possible, Application of | N/A |
| | | harmonised and "target to be harmonised" standards, The test | |
| | | suite for each product ensures | |

| compliance with the normative requirements of designated standards, and Approved body review of Art 6.1a, 6.1b and 6.2 compliance.Some Designated Standard have not published and | |
|---|--|
| evaluated by AB; | |

After evaluation, our product is found to satisfy all the technical regulations applicable to the product within the scope of Council Directives 2014/53/EU , according to 3.1a, 3.1b and 3.2 of the Directive. Some Harmonized Standard have not published, based on the Non-Harmonized Standard and evaluated by NB, when the harmonized standards published, we will renew them.

List of the Followed Test Standards for Assessment of RED Requirement

EN 60669-2-1:2004 + A1: 2009 + A12:2010 (used in conjunction with EN 60669-1:2000 + A2:2008)

Freddie Duem

EN 62479:2010

EN 50663:2017

EN 301 489-1 V2.2.3

Draft EN 301 489-17 V3.2.2

EN 300 328 V2.2.2

Yours sincerely,

Signed by or for the Applicant:

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