



6.3 Turnberry House  
175 West George St.,  
Glasgow  
G2 2LB  
[WWW.KRUCIAL.COM](http://WWW.KRUCIAL.COM)

## Declaration of Exemption: § 15.203 Antenna Requirement

FCC Registration No: GC931567

Grantee Code: 2BBDU

EPC: R3800009300

### Product Overview:

The K-mote is a technology used to convert wired signals to wireless, in order to enable the integration of legacy wired devices into new wireless LPWAN networks, while also improving power interfaces and remote management. FCC ID: 2BBDU-R3800009300.

### Antenna Specification:

Model No. Of Antenna: (Taoglas) TD.95.6H31(G)

Type of Antenna: Dipole – N Type Connector

Peak Gain of Antenna: 1.54 dBi

Frequency Range: 800 MHz – 1000 MHz

Impedance: 50Ω

*The mounting of the antenna is fixed to the radio module and no other antenna should be used.*

### § 15.203 Antenna Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. **Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.** However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.



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Professional Installation Requirements:

**(1) To qualify for professional installation, the applicant must explain why the hardware is not readily available to average consumer.**

**(2) Marketing—Device cannot be sold via retail to the general public or by mail order; it must be sold to authorized dealers or installers only.**

*Krucial mandates that the K-Mote be professionally installed (see declaration on product label and user manual), it is not readily available or sold to the general public. Krucial operates a Business-to-Business sales model whereby product is sold only to approved customers subject to terms and conditions prohibiting the re-sale of product. The product cannot therefore be purchased via mail order or a website and is designed for commercial or industrial use only.*

**(3) Filing must show that intended use is not for consumers and general public; rather device is generally for industrial/commercial use.**

*The following statement is present in the product user manual and on the product label:*

*“THIS DEVICE IS FOR INDUSTRIAL OR COMMERCIAL USE ONLY”*

**(4) Explain what is unique, sophisticated, complex, or specialized about the equipment that REQUIRES it to be installed by a professional installer?**

*To install the product it must be registered to the Krucial system. To carry out this process the installer must be trained, instructed, and given access to the system. This unique process eliminates the possibility of unapproved installation by the general public.*

Other professional installation requirements:

**(1) Installation must be controlled**

*To install the product it must be registered to the controlled Krucial system. Without completing registration process, the product is inert.*

**(2) Installed by licensed professionals (e.g., device sold to dealer who hire installers).**

*To carry out the installation process the approved installer must be trained, instructed, and given access to the system by Krucial. Installers are approved only by being a Krucial business to business customer or one of Krucial's staff.*

**(3) Installation requires special training (e.g., special programming, access to keypad, field strength measurements made).**

*All approved installers are trained by Krucial and are then given access to the Krucial device registration system. This is a specialist and technical process, requiring expertise unique to the Krucial system.*



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The below warning notice is included in the product user manual:

## Installation

**Warning: This equipment must only be installed by an instructed and approved installer. Contact KRUCIAL for approved installer details.**

## Regulatory Information

### FCC

Changes or modifications to the device could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

By signing this declaration, we confirm the above to be accurate.

Sincerely,

A handwritten signature in black ink, appearing to read "Rasheeda Ahmed".

Rasheeda Ahmed

Head of Quality and Production Assurance

R3 IoT Ltd (Trading as Krucial)