

EU Declaration of Conformity

1) Product name and serial range:

MK12 Smart PoE Powerbank

SN: OSE_PB_MK12_***



Figure 1: MK12 Smart PoE Powerbank

1.1) Object of the declaration

Description:

The OSE Smart PoE Powerbank is an edge compute unit designed to both power and compliment the Rajant intelligent mesh network. The Smart PoE Powerbank allows the user to deploy a Rajant mesh network in environments where AC wall power is not available (provides power and networking to the Rajant), and allows the user to integrate additional sensors onto the Rajant network through its USB or Ethernet interface.

Specification:

- 10/100 3 port Ethernet switch
- 1x passive PoE port for use with Rajant mesh radio
- Built in display
- Built in camera
- Built in lamp
- Self hosted webserver
- USB2.0
- 8 hour battery life powering Rajant Cardinal
- Docker and Portainer installed

2) Manufactured by:

Osprey Systems Engineering Ltd

3) Declaration:

This declaration is issued under the responsibility of the manufacturer.

I hereby declare that the MK12 Smart PoE Powerbank is in conformity with the operation, material content and essential health and safety requirements of the following harmonised legislation:

3.1 - Restriction of Hazardous Substance (RoHS)

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment and all addendums current to the date of issue of this declaration.

3.2 - Radio Equipment (RED)

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and all addendums current to the date of issue of this declaration.

4) Conformity Assessment:

This declaration is made following the Conformity Assessment Procedure contained within the directives [3.1] and [3.2] above. The procedure chosen is Internal Production Control pursuant to Annex II, Module A of Decision No 768/2008/EC of the European Parliament and of the Council of 9 July 2008 on a common framework for the marketing of products.

5) Harmonised Standards:

This declaration is made using the Presumption of Conformity granted to harmonised standards published within the Official Journal of the European Union pursuant to Article R8 of Decision No 768/2008/EC of the European Parliament and of the Council of 9 July 2008 on a common framework for the marketing of products. The following harmonised standards have been applied:

- 5.1) - Radio Spectrum (2.4Gz): Article 3.2 RED - ETSI EN 300 328 V2.2.2: 2019
Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum.
- 5.2) - Radio Spectrum (5Gz): Article 3.2 RED - ETSI EN 301 893 V2.1.1: 2017
5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
- 5.3) - EMC Compatibility: Article 3.1b RED - ETSI EN 301489-1 V2.2.3: 2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility
- 5.4) - EMC Compatibility: Article 3.1b RED - ETSI EN 301489-17 V3.1.1: 2017
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- 5.5) - Electrical Safety Article 3.1a RED - IEC EN 62368-1:2018
Audio/video, information and communication technology equipment - Part 1: Safety requirements
- 5.6) - Electrical Safety Article 3.1a RED - BS EN 62311:2008
Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)
- 5.7) - RoHS - IEC EN 63000:2018
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
- 5.8) - Luminaire Standard - IEC 60598-1
General requirements for luminaires, incorporating electric light sources for operation from supply voltages up to 1 KV

6) Operation:

This device is designed for use within the EU and United Kingdom.

7) Date of Issue:

6th May 2024

8) Place of Issue:

Osprey Systems Engineering Ltd
Unit 4, Derwent Mills commercial Park
Cockermouth
CA130HT
United Kingdom

9) Signature:

Dr. Benjamin Bird
Managing Director
Osprey Systems Engineering Ltd



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