



Osprey Systems Engineering

## Declaration of Conformity

In accordance with BS EN ISO/IEC 17050-1:2010

1. *Product model / product:*

Product	<i>Smart PoE Powerbank</i>
Model/type	<i>MK12</i>
Batch/serial no.	<i>OSE_PB_MK12_000 – OSE_PB_MK12_255</i>

2. *Manufacturer:*

Name	<i>Osprey Systems Engineering</i>
Address	<i>Unit 4, Derwent Mills Commercial Park, Wakefield Rd, Cockermouth CA13 0HT</i>

*Authorised Representative:<sup>2</sup>*

Name	<i>Dr. Benjamin Jonathan Bird</i>
Address	<i>Unit 4, Derwent Mills Commercial Park, Wakefield Rd, Cockermouth CA13 0HT</i>

3. *This declaration is issued under the sole responsibility of the manufacturer.*

4. *Object of the declaration:*

Product	<p>Description:</p> <p><i>The MK12 Smart PoE Powerbank is an Internet of Things / Edge computing device that is capable of both powering and controlling remote sensor networks through PoE, DC and USB / QC, with Docker, Portainer and a simple webserver.</i></p>
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*This product is primarily intended to power Rajant mesh “breadcrumbs” in situ, for robot deployments of a semi regular / one off nature. This product is ideally situated for use where it is not possible to build a fixed installation, and the breadcrumb cannot be located next to an AC power outlet for network connectivity reasons, and it would be a health and safety risk / unsightly and unprofessional to run extension cables.*

*The device can power a Rajant breadcrumb and provide battery status updates over the Rajant network. It is also capable of powering and controlling any additional sensors that utilise USB 2.0 or Ethernet or and consume less than 30 W.*

*The device features a 70 Wh internal battery. The device can be recharged utilising the provided Li-Ion charger.*

## Specification

### Key characteristics:

- 74 Wh battery capacity, giving ~14 hour battery life with Rajant Cardinal
- Onboard 120 degree FoV camera with autofocus and HDR, which can stream to DVR / VNC, can also record video and capture images at 12MP
- Built in lighting system
- Built in OLED display, showing battery and network information as well as serial number
- Built in webserver to allow remote MK12 Powerbanks to be interrogated
- Small form factor - 120x103x51 mm
- USB2.0 for additional device connectivity
- Docker and Portainer support for 3rd part applications
- 10/100 Ethernet switch, 3 ports accessible to user
- Designed for Rajant Cardinal



5. *The object of the declaration described above is in conformity with the relevant UK Statutory Instruments and Standards:*

2016 No. 1101	The Electrical Equipment (Safety) Regulations 2016
2016 No. 1091	The Electromagnetic Compatibility Regulations 2016
2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

6. *Additional information:*

Signed for and on behalf of: *Osprey Systems Engineering*  
Place of issue: *Unit 4, Derwent Mills Commercial Park, Wakefield Rd, Cockermouth CA13 0HT*  
Date of issue: *04/02/2024*  
Name: *Dr. Benjamin Jonathan Bird*  
Function: *Managing Director*  
Signature:

