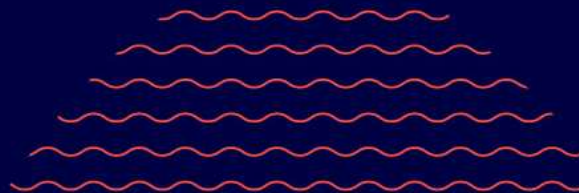


User Manual:

Gigabit Ethernet Signal Repeater

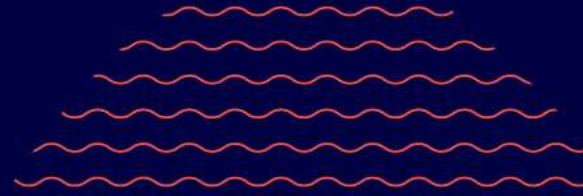
Version 2

May 2025



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Product Identification

Product Name: Gigabit Ethernet Signal Repeater

Model Variants: EU Variant:

Model Number: GENII/SRPT/100G

Mi-Wi Protocol Frequency: 868MHz

US Variant:

Model Number: GENII/SRPT/200G

Mi-Wi Protocol Frequency: 915MHz

Manufacturer: Checkit PLC
Broers Building,
JJ Thomson Avenue,
Cambridge
CB3 0FA
UK

Intended Use

The Gigabit Ethernet Signal Repeater is designed to relay data from CAM+ sensors to the Wireless Alarm Receiver Panel (WARP) if there is poor signal due to distance or obstruction.

It receives data from sensors via Mi-Wi Wireless protocol and relays them to the WARP through an Ethernet cable which connects to a network switch.

It is compatible with the following Ethernet standards:

- 1000Base-T (Gigabit Ethernet)
- 100Base-T (Fast Ethernet)
- 10Base-T (Energy-Efficient Ethernet)

Safety Precautions and Warnings

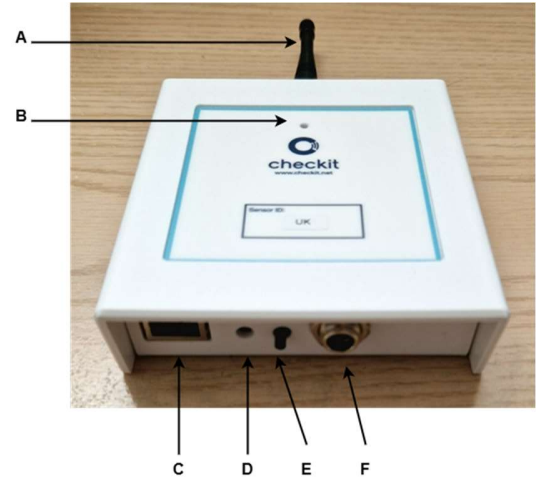
- Use either the power adapter or Power over Ethernet (PoE), but not both at the same time. Connecting both power sources simultaneously may damage the device.
- Only use the provided 12V power adapter. Using an unapproved adapter may cause damage or pose a safety risk.
- For indoor use only. Do not use the power adapter or device in wet or damp environments.
- Do not expose the device to water or moisture. This product is not water-resistant and may malfunction if exposed to liquids.
- Operate only within the specified temperature range (0 – 45°C) to prevent damage or performance degradation.
- Do not attempt to disassemble or modify the device. This may result in electric shock, fire, or voiding of certifications (CE, UKCA, FCC).
- Ensure adequate ventilation around the device to prevent overheating. Do not cover or place inside enclosed spaces.
- Do not use the device if the power cable or adapter is damaged. If you notice fraying, wear, or other damage, stop using it immediately and replace it.
- This device includes a rechargeable Li-Ion backup battery (3.6V, 3350mAh). Do not replace it with a non-approved battery.
- Do not puncture, crush, or expose the battery to fire—this can cause explosions or chemical leaks.
- Charge the battery only through the device's built-in charging system. Using third-party chargers may cause overheating or fire.
- If the battery shows signs of swelling, leakage, or overheating, discontinue use immediately and contact Customer Support.
- **FCC Caution:** any changes or modifications not approved by the party responsible for compliance may void your authority to operate the device.

Installation and Setup

The Gigabit Ethernet Signal Repeater is installed and set up by Checkit engineers.

Description

- A. Antenna
- B. Status LED:
 - Solid green - connected to the WARP
 - Green & amber flashing - connecting to the WARP
 - Solid amber - running on backup battery supply
 - Flashing red - not connected to the WARP
 - No LED - powered off
- C. Ethernet port
- D. Factory reset button
- E. Transmit now button: Press and release to immediately send data to the WARP
- F. 12V DC power supply input



Operation Instructions

The Gigabit Ethernet Signal Repeater relays data from sensors to the WARP automatically.

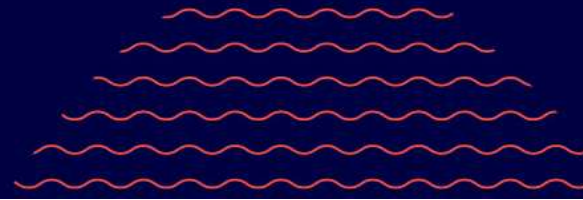
It should always be connected to:

- A network switch using an Ethernet cable for data transmission
- A power outlet (unless your network switch supports Power over Ethernet (PoE))

Note: Do not connect the power adapter if you use Power over Ethernet (PoE).

If the Gigabit Ethernet Repeater is accidentally disconnected from the power supply, nominated contacts will receive an alarm notification via call, email, and SMS.

It contains a rechargeable backup battery with a 6-hour duration in case of interruption to the power supply.



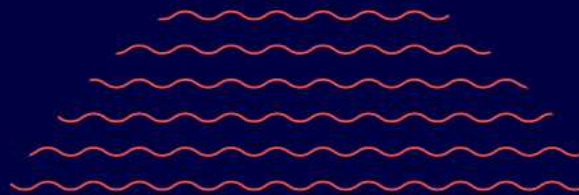
Troubleshooting

Please follow the instructions below if you receive a signal repeater alarm:

1. Locate the repeater on site.
2. Ensure that the:
 - Ethernet cable is securely connected to the bottom of the repeater and the network switch
 - Power cable is securely connected to the bottom of the repeater and the wall socket (unless you use Power over Ethernet)

Note: Do not connect the power cable if you use Power over Ethernet (PoE).

3. Check the repeater LED. If it is:
 - Solid green, you have resolved the issue
 - Flashing red, continue to step 4.
 - Solid amber/not lit, try another power socket or PoE port as applicable. If the LED still does not illuminate,
 - a. Remove the Ethernet cable (and power cable if applicable).
 - b. Press the factory reset button on the bottom of the device (the button is recessed so use a pen or paperclip).
 - c. Wait 30 seconds.
 - d. Reattach the cable(s).
4. Check the Ethernet connection LED on the bottom of the repeater. If it is:
 - Green, continue to step 5.
 - Not lit, replace the Ethernet cable. If that doesn't work, please contact your site IT team to request they investigate the connectivity.
5. Check the repeater LED again. If it is:
 - Green, you have resolved the issue
 - Red, please [contact us](#).

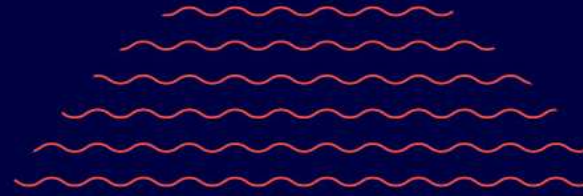


Maintenance & Handling

- The Gigabit Ethernet Signal Repeater will be mounted to the wall in an optimal position to receive data from sensors. Do not move or obstruct the device.
- If necessary, clean using a dry, soft cloth only. Avoid using harsh chemicals or abrasive materials.
- Do not drop or apply excessive force to the device, as this may damage internal components.

Technical Specifications

Power source	12V DC
Battery backup	Rechargeable Li-Ion 3.6V, 3350mAh
Universal mains power requirements	Standard 3-pin plug (UK), 2-pin plug (EU/US) Input: 100-240V AC, 50/60Hz, 0.8A
Indication type	LED
Casing dimensions	108 x 98 x 31mm
Casing material	ABS
Weight	230g
Water resistance	None
Certifications	CE, UKCA, FCC (pending)
Ambient operating temperature range	0 – 45 °C
On-board memory	N/A
Ethernet data speed	100 and 1000 Base-T standard
Mi-Wi Wireless protocol	EU 686MHz, Radiated power = +9dBm US 915MHz, Radiated power = 0dBm Occupied channel width: 153.6 kHz
Software update mode	Via Ethernet port or ICSP



Environmental Considerations

The Gigabit Ethernet Signal Repeater must not be disposed of with regular household waste. Instead, it should be taken to an electronics recycling centre.

To assist UK customers who no longer require their Checkit hardware, we offer a take-back scheme to repurpose or recycle your equipment, including batteries. [Click here](#) for details.

Warranty Information

12-month warranty (unless Peace of Mind applies) [Click here](#) for details.

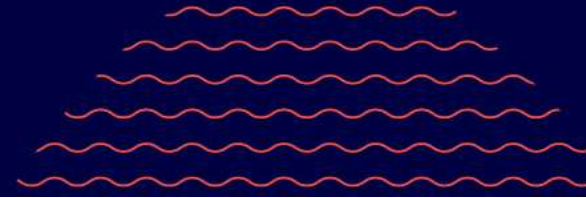
CE and UKCA Marking

The CE and UKCA markings on the back of the device signifies that it complies with EU safety, health, and environmental protection regulations. This ensures that the product meets the required standards and can be sold within the European Economic Area (EEA). The CE and UKCA marks are a declaration by the manufacturer that the device adheres to EU and UK legislations, ensuring its safety and performance for users.

Radio Frequency and Interference

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.

The portable transmitters with antenna comply with FCC/IC RF exposure limits for general population / uncontrolled exposure.



Declaration of Conformity

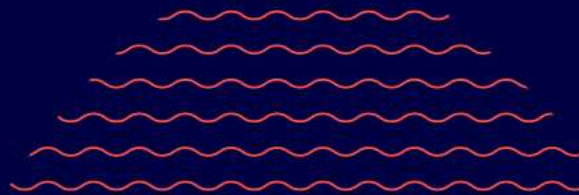
The Gigabit Ethernet Signal Repeater complies with the following Directives, UK Regulations, FCC and Harmonized Standards:

- Directive 2014/30/EU Electromagnetic Compatibility (EMC)
- Directive 2014/53/EU Radio Equipment
- Directive 2014/35/EU Low Voltage Directive
- Directive 2012/19/EU WEEE
- Directive 2006/66/EC Battery Directive
- Directive 2011/65/EU RoHS
- EC Regulation 1907/2006 REACH
- Electromagnetic Compatibility Regulations 2016
- Radio Equipment Regulations 2017
- Electrical Equipment (Safety) Regulations 2016
- The Waste Electrical and Electronic Equipment Regulations 2013
- The Waste Batteries and Accumulators Regulations 2009
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
- The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019
- FCC 47CFR 15.249

The product has been tested to meet the following harmonized standards:

- EN 61326-1:2013 – EMC Standard for Electrical Equipment
- EN 61010-1:2010 – Safety Requirements for Electrical Equipment

[Click here](#) for a copy of the full Declaration of Conformity.



Contact Information

Headquarters

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JJ Thomson Avenue,
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CB3 0FA
UK

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GU51 3PJ
UK

US Headquarters

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