

Mesh Extender

User Manual



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1. Mesh Extender Features

The Mesh Extender is essential to build out the Thread Mesh network, without adding additional functionality. The Mesh Extender can easily be added to the Thread network, to overcome dead spots in the network and thus cover a larger area than before. The Mesh Extender reduces dependency on the KNX IoT Hub (Thread border router), it routes all messages on the Thread network, even if the device is an end-device.

Features:

- KNX IoT Device, exposing the logical and conversion functions.
- Wireless Thread, router device, using Chili2S with Industry leading receive sensitivity
- Can act as a Thread Leader on the network.
- KNX heartbeat, each x seconds (configurable) the heart beat (CPU temperature) is send out, if the data point is linked.
- Input voltage 5-28 V DC so that works with KNX Bus power, DALI Bus power and USB.
- small size: aprox.: 42mm x 73mm x 12mm (W,L,H)

1.1. Logical functions

The logical functions are:

- OR
- AND
- XOR

The logical functions can have 2 to 5 inputs. The output datapoint will convey the result of the logical function.

2. General information

2.1. Document Version information

This manual is amended periodically and will be brought into line with new software releases. The change status (date) can be found in the contents header. If you have a device with a later software version, please check www.cascoda.com to find out whether a more up-to date version of the manual is available.

2.1.1. Used Terms

Sign	Description
DANGER!	Indicates an immediately hazardous situation which will lead to death or severe injuries if it is not avoided.
CAUTION!	Indicates a potentially hazardous situation which may lead to trivial or minor injuries if it is not avoided.
WARNING!	Indicates a situation which may lead to damage to property if it is not avoided.
NOTE!	Indicates a situation which may lead to possible (known) side effects.

Table 1: Used Terms

3. Safety instructions

Not applicable.

3.1. Issues

Questions about the product?

You can reach the technical service of Cascoda under Tel. +44 (0)2380 638 111 or support@cascoda.com.

We need the following information to process your service request:

- Type of appliance (model name or item number)
- Description of the problem
- Serial number or software version
- Source of supply (dealer/installer who bought the device from Cascoda)

For questions about KNX functions:

- Version of the device application
- ETS version used for the project

3.2. Contact information

info@cascoda.com

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Threefield Lane,

Southampton,

SO14 3LP, UK