



DESCRIPTION

The Gooee Gateway is a central data and control device providing a secure link between the local mesh network and the Gooee cloud-centric, Building Operating System.

It is primarily designed to communicate with luminaires and other connected devices/controls using BLE (Gooee Bluetooth SmartMesh), but also offers the possibility of future support for other common wireless network interfaces such as Zigbee. Additionally, it provides wired connections through RJ45 (ethernet), RS485 (BMS integration).

FEATURES

- Secure communication between the Gateway and Gooee Building Operating System
- Secure communications between the Gateway, WIMs and other wireless-based devices
- Supports up to 150* Gooee WIMs on the local Gooee Bluetooth SmartMesh network (directly)
- Support for networked Mesh Access Points to further extend the local network and node count per Gateway supporting up to 1000 WIMs per Gateway (subject to installation environment)
- Wired interface to the local network for connection to the Internet / Gooee Building Operating System
- Support for Bluetooth (Gooee’s Bluetooth SmartMesh), IEEE 802.15.4 (Zigbee – hardware available for future support)
- Local physical user interface with multi-line OLED display and Jog wheel
 - Status (Bluetooth, ZigBee, Micro-Gateways, Fixtures, Groups, Rejected Fixtures)
 - Configuration (Test Mode, App Server, Network)
 - General info (IP, MAC, hostname)
 - Setting (Change Pin Code, Screen Contrast)
 - Logs (Message History)
 - Version Info (Date, Time, Version)
- Supports over-the-air updates including managed updates to WIMs / Sensors

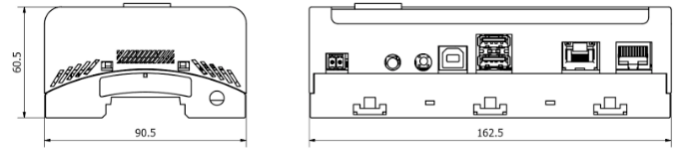
* Total device count dependent on service profile, configuration and environment



TECHNICAL SUMMARY

Physical Characteristics

Dimensions (mm)	162.5 x 90.5 x 60.5mm
Dimensions (in)	6.3" x 3.5" x 2.3"
Mounting	DIN Rail
Weight	0.32 kg



Environmental Requirements Intended for indoor use only!

IP Rating	IP20
Ambient Temperature	-20°C to 50°C -4°F to 122°F
Minimum clearance around the installed Gateway	- 150mm above & below the Gateway - 150mm on both sides of the Gateway - 50mm in front of the Gateway
Approvals	EN 60950-1:2006, IEC EN 62368-1:2014 EN 301 489-17, EN 55032:2015 EN 55035:2017, ETSI 300 328 V2.1.1 EN 62479:2010

Hardware Overview

- 1 GHz Quad Core Cortex A9 ARM CPU
- 1GB DDR3 RAM
- 4GB MLC eMMC flash storage OR 2GB SLC eMMC flash storage
- microSD card socket
- SATA II port
- PCI Express Bus

Electrical Supply

Supply Voltage	12/24V DC
Power Requirements	Maximum 10W

Wireless Interfaces (Communications Module)

- GoOee Bluetooth SmartMesh Network (100 nodes dependent on service profile)
- IEEE 802.15.4 (Available for future Zigbee compatibility)

Physical Interfaces (Wired)

- Ethernet (RJ45) – Gigabit
- 1x USB B – Debug Console
- 2x USB A 2.0 / 3.0
- 1x RS485 (RJ11) – 2 Wire
- Multi-line OLED Display
- Jog Wheel (Encoder Wheel)
- Reset Switch
- Power Status LED

ECOSYSTEM ARCHITECTURE

