



MESH GATEWAY WI-FI

A device for data collection from Wirepas Mesh devices and forwarding it to the platform



Inventory tracking



Temperature and humidity monitoring



Tools and equipment monitoring

LOWER INFRASTRUCTURE COSTS WITH WI-FI

Connect the gateway to your server via Wi-Fi, ensuring a stable path for Mesh data to reach the cloud – all without Ethernet cabling and cellular SIM costs

INSTANT IOT PLATFORM INTEGRATION

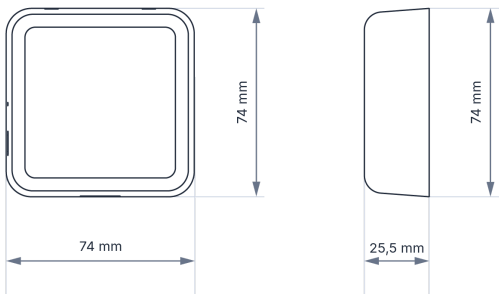
Transfer Mesh network data to your dashboard by connecting directly to AWS, Azure, or a local broker via the standard MQTT protocol

BRINGING MESH DATA TOGETHER

Gateway collects data from both anchorms and EYE Mesh tags, acting as a single bridge for the entire Wirepas ecosystem

SMALL & DISCREET

A neutral design that fits anywhere – from warehouse ceilings to walls – staying out of sight while providing maximum coverage



Electronics

Platform	Espressif Systems ESP32S3WROOM-1
Processor	ESP32-S3 series, Xtensa® dual-core 32-bit LX7 microprocessor, up to 240MHz
Memory	384 KB ROM, 512 KB SRAM, Up to 8 MB PSRAM
Connectivity	WiFi (802.11), Wirepas Mesh 2.4GHz (v5.x)
User interfaces	Power-on LED, Wirepas LED, WiFi RGB LED, factory-reset button

Connectivity

Wifi	<p>Core module: Espressif Systems ESP32-S3</p> <p>Protocol: IEEE 802.11 b/g/n</p> <p>Frequency band: 2.412 to 2.484 GHz</p> <p>Channel spacing: 20 MHz (802.11 b/g/n), 40MHz (802.11n)</p> <p>Sensitivity: -98 dBm (802.11b, 1 Mbps)</p> <p>TX Power: 20.5dBm (max., 802.11b, 1 Mbps)</p> <p>Antenna type: Meander Planar Inverted F-antenna</p> <p>Antenna gain: 0dBi</p>
Wirepas Mesh	<p>Core module: Nordic Semiconductor nRF52832 SoC, 32-bit ARM Cortex-M4</p> <p>Protocol: Wirepas Mesh 2.4GHz, v5.x (up to 5.3)</p> <p>Frequency band: 2.402 to 2.480 GHz</p> <p>Channel spacing: 2 MHz</p> <p>Sensitivity: -96 dBm</p> <p>TX power: 4dBm (max.)</p> <p>Antenna type: Planar Inverted F-antenna</p> <p>Antenna gain: 2dBi</p>

Power

Voltage	<p>5 Vdc (USB)</p> <p>4.5 to 30 Vdc (internal 2-port)</p>
Connector	<p>USB: USB-C connector</p> <p>Internal 2-port: pluggable connector, Würth series 301/3157 compatible</p> <p>Rear knockout for cable entry (20mm diameter)</p>
Output current	300 mA at 5Vdc (max., with 802.11b, 1 Mbps, @20.5 dBm)

Physical specification

Material	Recyclable ABS plastic (flame-resistant UL94V-0)
Color	White
Dimensions	74 x 74 x 25.5 mm
Weight	50 g
Ingress protection	IP40
Assembly	Front and back clip together construction (tool required for disassembly once mounted)
Mounting method	Dual-adhesive or screws

Operating environment

Operating temperature	-20°C to +65°C
Storage temperature	-40°C to +85°C

Certification & approvals

Regulatory	CE
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