

10. Glossary

Ambilight - Integrated RGB LED ring used for status indication and visual effects.

Apps - Modular software packages (e.g., Zigbee2MQTT, Node-RED) that can be installed/uninstalled independently on SMHUB.

BLE (Bluetooth Low Energy) - Energy-efficient version of Bluetooth for sensors, tags, and small IoT devices.

DDNS (Dynamic DNS) - A service that maps a dynamic IP to a permanent domain name for remote access.

Matter - A connectivity standard that allows devices from different ecosystems (Google, Apple, Amazon, SmartThings) to interoperate.

Matterbridge - An application that bridges Zigbee/Thread devices to the Matter ecosystem.

MQTT (Message Queuing Telemetry Transport) - A lightweight messaging protocol used for IoT communications. SMHUB includes a built-in **Mosquitto MQTT broker**.

Node-RED - A flow-based programming tool for IoT automation, preinstalled on SMHUB.

OTBR (OpenThread Border Router) - Service that connects Thread devices to IP networks.

PoE (Power over Ethernet) - A method of delivering power and data over the same Ethernet cable.

UPS (Uninterruptible Power Supply) - Add-on module with 18650 cells providing backup power during outages.

WireGuard - A modern VPN protocol, preinstalled on SMHUB for secure remote access.

Zigbee2MQTT (Z2M) - Application that connects Zigbee devices to MQTT brokers, enabling integration with multiple smart home platforms.

Z-Wave JS - An open-source software stack for managing Z-Wave devices.

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