

Uzma Unveils 4G/2G Pico 2-Channel Relay for Remote Control & Automation



London, United Kingdom Feb 10, 2025 (IssueWire.com) - [Uzma Mohsin](#), a tech innovator from West Midlands, UK, has just launched [LockyFi](#), her third Kickstarter campaign. With a track record of successful projects, Uzma has previously developed the [Serial Servo HAT & Expansions](#), a versatile module designed for building robots and automation systems, and the [UHF Reader: Rapid Multi-Tag Reading, a high-speed RFID reader](#) capable of reading over 50 tags per second within a 1.5-meter range.

Building on this success, LockyFi is a smart 4G/2G/Wi-Fi Remote Switch Controller that offers seamless remote appliance control. Powered by an ESP32 microcontroller, this compact and innovative board supports multiple control methods, including SMS, calls, internet, and Wi-Fi. Designed for home automation, industrial control, and security applications, LockyFi enables users to control and monitor appliances effortlessly from anywhere in the world.

LockyFi Variants

- **LockyFi - 4G/Wi-Fi Remote Switch Controller** – Provides high-speed connectivity, cloud-based automation, and low-latency communication.
- **LockyFi - 2G/Wi-Fi Remote Switch Controller** – Ideal for regions with limited 4G coverage, supporting SMS and call-based automation.

LockyFi Specifications

Microcontroller - ESP32-S3

- **CPU**
 - Dual-core 32-bit LX7 microprocessor
 - 2.4 GHz Wi-Fi 802.11b/g/n
 - Bluetooth 5 (LE) with Long Range support
- **Memory**
 - 512 KB SRAM (TCM)
- **Security**
 - Secure boot
 - SHA-256 acceleration
 - Hardware TRNG

Relay & Connectivity

- **2-Channel Relay with Opto-Isolation**
 - Supports AC/DC loads
 - Opto-isolated relays for safety
 - Relay status LED indicators
- **Connectivity**
 - 4G version: High-speed cloud automation and remote operation
 - 2G version: Call/SMS-based control
 - Wi-Fi Hotspot Mode: Local control without mobile networks

Expansion & Debugging

- **GPIO Breakout for Sensor Integration**
 - Supports I2C, SPI, UART
 - Integrated **BME280 sensor** for temperature, humidity, and pressure monitoring
- **USB Type-C for Power & Programming**
 - Supports MicroPython, CircuitPython, and Arduino IDE

LockyFi is a **reliable, cost-effective, and feature-rich** platform for smart automation. Whether for **home automation, industrial control, or IoT development**, its flexible connectivity options and robust security features make it an excellent choice.

LockyFi is currently [available on Kickstarter](#), where backers can support the project and get early access to this cutting-edge automation solution.

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Source : <https://shop.sb-components.co.uk/>

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