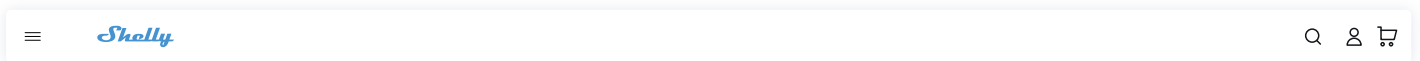


# The Pill By Shelly



## Device identification

- Device name: **The Pill by Shelly**
- Device model: **S3SN-0U53X**
- Device SSID: **ShellyPill-XXXXXXXXXXXXXX**
- Bluetooth ID: **0x1829**



The Pill by Shelly is a compact multi-purpose low-voltage Wi-Fi & Bluetooth device, powered by only 5V via USB-C. The small form factor allows it to fit conveniently into any space-constrained environment.

The device is ready to use for Temperature monitoring with Plug and play compatibility with external Temperature sensors (DS18B20) or Temperature & Humidity (DHT22). Additionally, supporting wide variety of digital or analog sensors and low-voltage actuators with external peripheral addons and configurable peripheral modes.

## Main features

- Compact design
- USB-C powered (5V)
- Dual connectivity (WiFi & Bluetooth)
- Plug and play: Temperature monitoring (DS18B20/DHT22)
- Advanced peripheral modes - Digital Input/Output; Analog input (Voltage meter);
- External Peripheral Add-ons: SSR Dual-channel, Analog Voltage measurement (0-30V)
- Shelly Gen3 capabilities (Local actions, Schedules, Scripting, Virtual components)
- Bluetooth Gateway for Shelly BLU devices
- 3rd party integrations-ready (MQTT, WebSocket, HTTP)

## Peripheral modes

- **Temperature** (DS18B20) - Supporting up to 5 x **Temperature** probes (DS18B20); *+ optional 2 Digital IO*
- **Temperature & Humidity** - 1x Temperature & Humidity sensor DHT22 *+ optional 2 Digital IO*
- **Analog Input** - Analog sensor input (voltmeter) *+ optional Digital IO*. Measured Voltages: 0-2.5 V (default); external Add-on for **0-30V**
- **Digital Input/Output** - configurable for up to 3x Inputs/Outputs; Digital IO: 3.3 V Logic Levels; Digital input: Active Low (default).
- **Solid State Relay Add-on** - Peripheral Addon with 2x channels galvanic-isolated outputs (max 30 V / 300 mA) *+ optional Digital IO*

\* Note: Digital I/O can be combined with all modes and setup independently as Input or Output

## Use cases

- **Water Temperature Monitoring**  
Track temperature of pools, aquariums, water tanks and reservoirs with simultaneous monitoring of up to five temperature points, using external temperature sensor probes (DS18B20)
- **Temperature and Humidity Monitoring**  
Monitor temperature and humidity in a room, server cabinets, greenhouse, warehouses or other areas where keeping optimal environment condition is necessary, with the supported external sensor DHT22

- **Digital Sensors Readings**  
Connect simple digital sensors like door reed, motion, water state sensor to your home automation system
- **DC Voltage monitoring** - external Add-on available  
Monitor DC voltages up to 30 V with the external Analog 0-30 V Add-on, suitable for tracking voltage across various battery systems (3.7 V, 12 V, 24 V) or other DC power lines.
- **Analog Sensor measurements** - external Add-on available  
Analog sensor voltage measuring for popular hobby & industrial analog sensors with the available Analog 0-30 V Add-on
- **Control DC Loads** - external Add-on available  
Dual-channel control for small DC Loads up to 30 V / 300 mA like led indicators, small fans, solenoids, valves and etc. with additionally available external SSR Add-on
- **External Systems Control**  
Available Digital Input/Outputs allow switching and reading state of external controllers and systems (3.3V logic level). The optionally available SSR Add-on allows triggering inputs of external controllers (max 30 V / 300 mA).

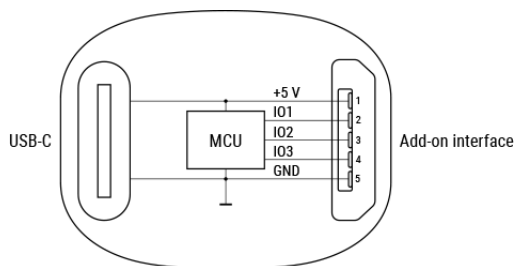
## Main applications

- Residential
- University/college
- Hobby

## Integrations

...

## Simplified internal schematics



## Device electrical interfaces

### Power supply

- USB-C power supply: +5 V–

### Add-on interface

- DC Power Supply: +5 V–
- Input/Output 1 - Configurable:
  - 1-Wire (DS18B20, DHT22)
  - Digital Input
  - Digital Output
  - Analog Input (Voltmeter)
- Input/Output 2 - Configurable:
  - Digital Input
  - Digital Output
- Input/Output 3 - Configurable:
  - Digital Input
  - Digital Output
- GND

## Connectivity and protocols

- Wi-Fi
- Bluetooth

## User interface

### Inputs

- One (Control) button
  - Press and hold for 5 seconds to enable Device access point and Bluetooth connection.

- Press and hold for 10 seconds to factory reset the Device.

## Outputs

- LED (monocolor) indication
  - AP (Access Point) enabled and Wi-Fi disabled:  
1 second ON / 1 second OFF
  - Wi-Fi enabled, but not connected to a Wi-Fi network:  
1 second ON / 3 seconds OFF
  - Connected to a Wi-Fi network:  
Constantly ON
  - Cloud is enabled, but not connected:  
1 second ON / 5 seconds OFF
  - Connected to Shelly Cloud:  
Constantly ON
  - OTA (Over the Air Update):  
½ sec ON / ½ second OFF
  - Button pressed and held for 5 seconds:  
½ second ON / ½ second OFF
  - Button presses and held for 10 seconds:  
¼ second ON / ¼ second OFF

The list above starts with the initial device status and the lowest priority. Every next state cancels the previous one.

## Schaltplan

Quantity	Value
<b>Physical</b>	
Size (HxWxD):	26 x 19.95 x 8.5 mm / 1.02 x 0.79 x 0.34 inch
Weight:	3 g / 0.11 oz
Shell material:	Plastic
Shell color:	White
<b>Environmental</b>	
Ambient working temperature:	-20 to 40 °C / -5 to 105 °F
Humidity:	30 % - 70 % RH
<b>Electrical</b>	
Power supply:	5 V <sub>-</sub> (from USB Type-C port)
Power consumption:	< 1 W
<b>Input circuits ratings</b>	
Digital inputs triggering voltage:	Active <b>LOW</b> ; Trigger low: < 0.83 V Trigger high: > 2.48 V
Digital inputs max. voltage	3.3 V

<b>Output circuits ratings</b>	
Max. switching voltage:	3.3 V (logic-level)
Max. switching current:	20 mA
<b>Sensors, meters</b>	
Voltmeter (DC)	<ul style="list-style-type: none"> <li>• 0 V - 2.5 V (Built-in)</li> <li>• 0 V - 30 V (Requires external Addon)</li> </ul>
Voltmeter accuracy:	$\pm(2\% + 5d)$
Internal-temperature sensor:	No
External sensors supported:	<ul style="list-style-type: none"> <li>• single DHT22</li> <li>• up to five DS18B20</li> </ul>
<b>Radio</b>	
<b>Wi-Fi</b>	
Protocol:	802.11 b/g/n
RF band:	2401 - 2483 MHz
Max. RF power:	< 20 dBm
Range:	Up to 30 m / 100 ft indoors and 50 m / 160 ft outdoors (Depends on local conditions)
<b>Bluetooth</b>	
Protocol:	BLE 4.2
RF band:	2402 - 2480 MHz
Max. RF power:	< 10 dBm
Range:	Up to 10 m / 33 ft indoors and 30 m / 100 ft outdoors (Depends on local conditions)
<b>Microcontroller unit</b>	
CPU:	Shelly ESP32 C3 (ESP-Shelly-C38F)
Flash:	8MB
<b>Firmware capabilities</b>	
Schedules:	20
Webhooks (URL actions):	20 with 5 URLs per hook

Scripting:	Yes
MQTT:	Yes
Encryption:	Yes
Other:	<p>Supported Accessories:</p> <ul style="list-style-type: none"> <li>• Cable adapter - 3.5mm Jack (incl. in the package)</li> <li>• Splitter 1 to 5 - 3.5mm Jack</li> <li>• Temperature sensor DS18B20 - 3.5mm jack</li> </ul> <p>Supported add-ons:</p> <ul style="list-style-type: none"> <li>• 5-terminal Add-on</li> <li>• SSR Add-on</li> <li>• Analog 0-30V Add-on</li> </ul>

## Components and APIs

- This device
- All Shelly devices and services

## Compliance

[The Pill by Shelly multilingual EU declaration of conformity 253 2025-12-11.pdf](#)

[The Pill by Shelly UK PSTI ACT statement of compliance 253 2025-12-11.pdf](#)

[The Pill by Shelly UKCA declaration of conformity 253 2025-12-11.pdf](#)

## Printed user guide

[The Pill by Shelly multilingual printed user and safety guide.pdf](#)

## Installation guides

Newsletter abonnieren

Deine Mail-Adresse

Mit dem Ankreuzen dieses Kästchens stimme ich zu, Newsletter und Marketinginformationen zu Shelly Produkten, Dienstleistungen und gemeinsamen Kampagnen mit Shelly Partnern per E-Mail gemäß der Datenschutzerklärung zu erhalten. Mir ist bewusst, dass ich mich jederzeit wieder abmelden kann.






Unternehmen

---

Hilfe

---

Mehr erfahren

---

Information

---