



The Yocto-PowerRelay-V2 is a small USB power relay. It contains a USB-driven SPDT power relay switch: you can drive by software the relay input to one of the two outputs. To make it easier to test your project, two LEDs show the currently active output.

This device only includes a single relay, but it can drive higher loads than the Yocto-Relay. The relay and the connector can stand a current of 5A. When put into an enclosure, the Yocto-PowerRelay-V2 can be used to directly switch hazardous live mains circuits up to 150 V r.m.s., and even up to 250 V AC r.m.s. for secondary circuits. Note that the Yocto-PowerRelay-V3 is more appropriate to switch loads connected to the mains.

Be aware that using a relay to drive inductive loads (motors, transformers) may lead to accelerated aging of the relay. Please refer to the documentation for hints on reducing this type of problems.

Specifications

Product ID	RELAYHI2
USB connector	micro-B
Width	20 mm
Length	45 mm
Weight	12 g
Relay type	TE PE014005
Channels	1
Max switching current	5 A
Max switching power	1250 VA
Operate time	10 ms (typ.)
Release time	10 ms (typ.)
Max withstanding voltage	1000 V r.m.s.
Max working voltage	150 V r.m.s.
IEC protection class	class II
USB insulation, clearance dist.	3.2 mm
USB insulation, creepage dist.	4 mm
USB insulation, dielectric strength (1 min.)	4 kV
Normal operating temperature	5...40 °C
Extended operating temperature [‡]	-30...85 °C
RoHS compliance	RoHS III (2011/65/UE+2015/863)
USB Vendor ID	0x24E0
USB Device ID	0x007E
Suggested enclosure	YoctoBox-Short-Thick-Black
Harmonized tariff code	8542.3190
Made in	Switzerland

[‡] The extended temperature range is defined based on components specifications and has been tested during a limited duration (1h). When using the device in harsh environments for a long period of time, we strongly advise to run extensive tests before going to production.



For more information: www.yoctopuce.com/EN/products/yocto-powerrelay-v2