

The YoctoHub-Wireless-SR is a wireless-enabled module which can host three Yoctopuce modules to access them remotely through a WiFi network. It can be powered either by a Micro-B USB cable and a regular phone charger, or a 5V battery pack.

You can use the YoctoHub-Wireless-SR in the same way as a VirtualHub running on a little computer, but it is much easier to setup and maintain than a computer. It is smaller and consumes less. It is compatible out-of-the-box with all existing applications using Yoctopuce API. As for the VirtualHub, it can run autonomously using HTTP callbacks.

Moreover, the YoctoHub-Wireless-SR features a built-in clock timer, that makes it possible to put the device into low-power deep sleep and wake-up automatically at predefined time. This makes it possible to reduce power consumption to 15uA while sleeping, which is crucial for applications running on battery or solar panels. The YoctoHub-Wireless-SR only needs a few seconds of wake-up time to post data on a web server using the HTTP callback.

You can connect three Yoctopuce modules directly, one of which can be fixed directly on the YoctoHub-Wireless-SR and connected using a Board2Board-127 connector. More devices can be connected thanks to the YoctoHub-Shield extension. The YoctoHub-Wireless-SR can power Yoctopuce devices up to 2A.

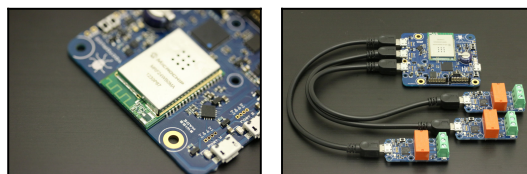
Contrarily to the YoctoHub-Wireless, which looks very similar, this version does not include an antenna connector but uses a tiny antenna directly integrated on the PCB. It takes less space, but should only be used in applications when there is a good wireless connectivity, away from any strong electromagnetic interference.

Warning: although the 3 downstream ports hosting Yoctopuce devices use micro-B USB connectors, the YoctoHub-Wireless-SR uses a specific protocol simpler than USB to talk to the devices. Therefore, it is not possible to drive or even to power a regular (non-Yoctopuce) device using the YoctoHub-Wireless-SR. It is not possible either to use a regular USB hub (such as the Micro-USB-Hub) on the downstream ports. If you need more downstream ports for Yoctopuce devices, you can use a YoctoHub-Shield.

Specifications

Product ID	YHUBWLN2
USB connector	micro-B
Thickness	8.1 mm
Width	58 mm
Length	60 mm
Weight	30 g
Channels	3 ports
Max Current (continuous)	2 A
IEC protection class	class III
Normal operating temperature	5...40 °C
Extended operating temperature [‡]	-30...85 °C
USB consumption	110 mA
Network connection	802.11b
RoHS compliance	RoHS III (2011/65/UE+2015/863)
USB Vendor ID	0x24E0
USB Device ID	0x003A
Suggested enclosure	YoctoBox-HubWlan-Transp
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/yoctohub-wireless-sr