

The YoctoHub-Wireless-g is a wireless-enabled module that can host three Yoctopuce modules to access them remotely through a Wifi network (802.11g). It can be powered either by a USB Micro-B cable and a regular phone charger, or a 5V battery pack.

The YoctoHub-Wireless-g can be used in the same way as a VirtualHub running on a little PC, but it is much easier to setup and maintain than a PC. It is smaller and consume 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. The YoctoHub-Wireless-g can connect to a 802.11g wireless access point in infrastructure mode, but it can also work as a software access point (SoftAP) to provide wireless access to

Yoctopuce modules from a mobile device without any additional infrastructure.

Moreover, the YoctoHub-Wireless-g 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-g only needs a few seconds of wake-up time to post data on an web server using the HTTP callback.

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

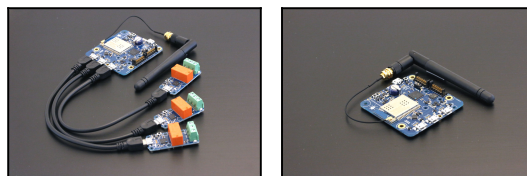
The device is provided with an articulated antenna (9cm, with RP-SMA connector) and a connection cable (uFL to RP-SMA). The use of a real antenna makes it possible to connect to an access point from significantly farther than what most mobile phones and tablets can achieve.

Warning: although the 3 downstream ports hosting Yoctopuce devices use USB micro-B connectors, the YoctoHub-Wireless-g use 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-g. It is not possible neither 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	YHUBWLN3
USB connector	micro-B
Thickness	8.1 mm
Width	58 mm
Length	60 mm
Weight	34 g
IEC protection class	class III
Normal operating temperature	5...40 °C
Extended operating temperature [†]	-30...85 °C
USB consumption	160 mA
RoHS	Yes
USB Vendor ID	0x24E0
USB Device ID	0x0046
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-g