

The YoctoHub-Wireless-g is a wireless-enabled module which can host three Yoctopuce modules to access them remotely through a WiFi network (802.11g). 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-g 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. 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, which makes it possible to put the device into low-power deep sleep and wake-up automatically at predefined times. 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 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-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.

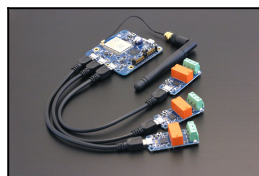
The device is provided with an articulated antenna (9cm, with RP-SMA connector) and a connection cable (uFL to RP-SMA). The use of a real antenna makes it possible to connect to an access point from significantly farther away than what most mobile phones and tablets can achieve.

Warning: although the 3 downstream ports hosting Yoctopuce devices use micro-B USB connectors, the YoctoHub-Wireless-g 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-g. 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

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|---|--------------------------------|
| 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 compliance | RoHS III (2011/65/UE+2015/863) |
| 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