![Colswe Consulting logo]

Colswe-Hub-Wireless-SR

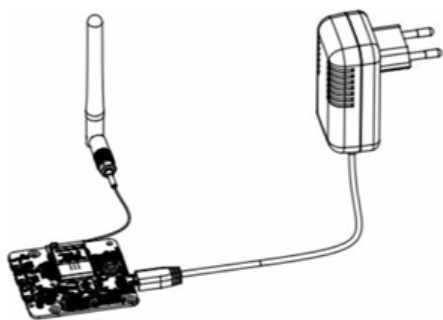To connect Colswe sensors package to a WiFi network
Art.No. 17000

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

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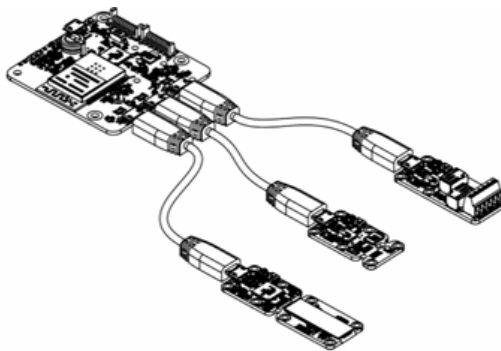
Moreover, the Colswe-Hub-Wireless-SR features a built-in clock timer, that makes it possible to put the device into low-power deep sleep and wake-up automatically at predefined time. This makes it possible to reduce power consumption to 15uA while sleeping, which is crucial for applications running on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

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

Warning: although the 3 downstream ports hosting Colswe environmental devices use USB micro-B connectors, the Colswe-Hub-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-Colswe environmental) device using the Colswe-Hub-Wireless-SR. 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 Colswe environmental devices, you can use a YoctoHub-Shield.

The Colswe-Hub-Wireless-SR can be powered by a regular USB charger

Connecting sub-modules with USB cables

Colswe-Hub-Wireless-SR Package:

Sensor: Hub-Wireles-SR (Art. No. 27000).
Enclosures: Box-HubWlan-Black (Art. No. 25030)
USB Cables:

3 cables from Hub to sensor units: OTG Micro-B/Micro-B-20 length 20 cm, straight (Art. No. 26000)
1 cable from the power supply to the Hub; choose between:
USB-A-MicroB-180, length 180 cm, right angle (Art. No. 36010)
USB-A-MicroB-180, length 180 cm, left angle (Art. No. 36020)

USB-A-MicroB-180, length 180 cm, straight (Art. No. 36030)
Power Supply: 3 ports USB-A white, 100-240 V to 5 V USB, 2,4 A, 12 W

Downloads in www.colswe.com**:**

- Colswe-Hub - Wireless-SR Manual.pdf
- VirtualHub.Zip

Technical Specification

Module name:	Colswe-Hub-Wireless-SR
Article No.:	17000
Sensor name:	YoctoHub-Wireless-SR (Made in Switzerland)
USB connector:	micro-B
Channels:	3 ports
Max. Current (continuous):	2 A
USB current comsumption:	110 mA
Network connection:	802.11b
Normal operating temperature;	5...40 °C
Extended operating temperature:	-30...85 °C
Supported Operating Systems:	Windows, Linux (Intel + ARM), Mac OS X, Android
Drivers:	no driver needed
API / SDK / Libraries (USB+TCP):	C++, Objective-C, C#, VB .NET, Delphi, Python, Java/Android
API / SDK / Libraries (TCP only):	Javascript, Node.js, PHP, Java
RoHS:	yes
Enclosure:	YoctoBox-HubWlan-Black
Art. No.:	25030
USB cables:	
USB OTG	USB-OTG-micro-B to micro B, 100 cm
Art. No.:	28040
USB cable left	USB-A to left angle USB micro-B, 180 cm
Art. No.:	36010
USB cable right	USB-A to right angle USB micro-B, 180 cm
Art. No.:	36020
USB cable straight	USB-A to straight USB micro-B, 200 cm
Art. No.:	36030
Power supply:	3 ports USB-A, 100-240 V to 5 V USB, 2,4 A, 12 W
Art. No.:	59010
Thickness:	28 mm
Width:	68 mm
Length:	82 mm
Weight:	100 g

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