

Colswe-Hub-GSM-3G-EU

To connect Colswe sensors package to a GSM network
Art. No. 17010

The Colswe-Hub-GSM-3G-EU is a wireless-enabled module that can host three Colswe modules to access them remotely through a 3G GSM cellular network (UMTS and HSPA). It can be powered either by a USB Micro-B cable and a regular phone charger, or a 5V battery pack.

The radio module supports the two GSM frequency bands 900 MHz and 1800 MHz used in Europa, Middle-East, Africa, Asia and Pacific. For a detailed list of frequency bands supported in each country, please refer to a GSM frequency band.

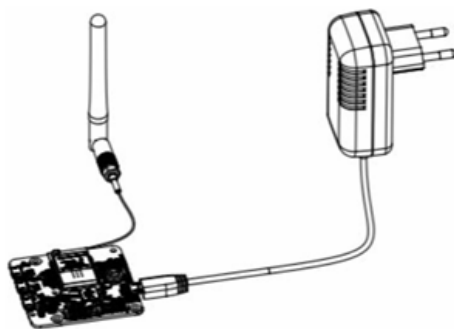
The Colswe-Hub-GSM-3G-EU can be used in the same way as a VirtualHub running on a little PC, but it is much easier to setup and maintain than a PC. It smaller and consume less. It is compatible out-of-the-box with all existing applications using Yoctopuce API. As for the VirtualHub, it can run autonomously using HTTP callbacks.

Moreover, the Colswe-Hub-GSM-3G-EU 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-GSM-3G-EU only needs a few seconds of wake-up time to post data on a web server using the HTTP callback.

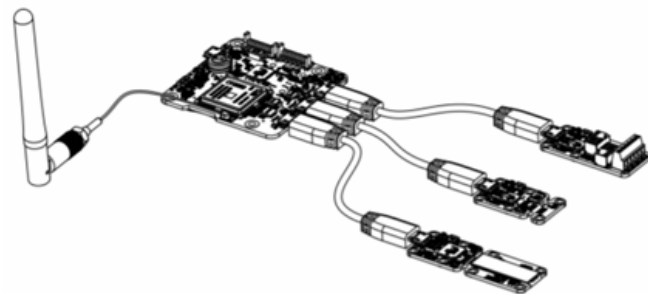
Three Colswe modules can be connected directly, one of which can be fixed directly on the Colswe-Hub-GSM-3G-EU and connected using a Board2Board-127 connector. More devices can be connected thanks to the YoctoHub-Shield extension. The Colswe-Hub-GSM-3G-EU can power Colswe environmental devices up to 2A.

The device is provided with an articulated antenna (9cm, with SMA connector) and a connection cable (uFL to SMA).

Warning: although the 3 downstream ports hosting Colswe environmental devices use USB micro-B connectors, the Colswe-Hub-GSM-3G-EU 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-GSM-3G-EU. 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-GSM-3G-EU can be powered by a regular USB charger



Connecting sub-modules with USB cables

Package: Sensor: Hub-GSM-3G-EU (Art. No. 27000), incl. antenna
 Enclosure: 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 100-240 V to 5 V USB, 2,4 A, 12 W

Downloads in www.colswe.com:

- Colswe-Hub-GSM-3G-EU Manual.pdf
- VirtualHub.Zip

Technical Specification

Module name:	Colswe-Hub-GSM-3G-EU
Article No.:	17010
Sensor name:	YoctoHub-GSM-3G-EU (Made in Switzerland)
USB connector:	micro-B
USB current consumption:	100 mA
Frequency:	900 and 1800 MHz
Chipset:	Telit UL865-EUD
Normal operating temperature;	5...40 °C
Extended operating temperature:	-20...70 °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:	104 g