SAMCLA

Infinite®

HUBseries

DATASHEET

Description

HUB STATION

- The smart Gateway between Samcla terminal devices and the Samcla Smart Platform web application.
- Internet connection modes: WiFi / Ethernet / 4G.
- Bluetooth local operating mode.
- Unlimited number of Samcla terminal devices per HUB.
- Unlimited number of sensors per HUB.
- Wireless sensors connection.
- Secure communications.
- Automatic time clock by means the Internet connection.
- Real time notifications.
- Stand alone RF operation is guaranteed in case of Internet connection disruption. Data sensors are automatically uploaded to the Samcla Smart Platform once Internet connection is restored.

	HUB	HUB LITE
Internet connection modes:	WiFi / Ethernet / 4G	WiFi
Max. terminal devices to manage	Unlimited	26 (REP included)

SUPPLIED PARTS

HUB UNIT [mm]	POWER SOURCE 230VAC / 5VDC 2A
	MOUNTING PARTS

ORDERING INFORMATION

MODEL	REFERENCE	DESCRIPTION
HUB	HUB412B8P	HUB STATION - BLE / Wi-Fi / ETHERNET / RF
HUB LITE	HUB512B8P	HUB STATION - BLE / Wi-Fi / RF

Technical specifications

MECHANICAL SPECIFICATIONS

Enclosure	ABS
Operating temperature range	-15ºC to 55ºC / 5ºF to 131ºF
IP Protection	IP2x / Indoor or outdoor under cover
Weight (approx.)	260g / 9oz

ELECTRICAL SPECIFICATIONS

Power supply	5VDC / 2A
Short circuit protection	Yes
RF range (open area)	1000m / 3281ft
RF Band	868MHz Free SRD band
Ethernet	10/100 Ethernet (RJ-45)
Wi-Fi	2.4 GHz / 802.11bgn
Bluetooth	Bluetooth 5.0

STATUS LEDS

⏻	**HUB power supply**	ON: HUB power supply OK. OFF: HUB power supply not detected.
i	**Info**	Blinks once: Initializing. Blinks twice: Establishing server communication. OFF: Ready. ON: Time clock error.
WWW	**Network connection**	Blinks once: Detecting network. Blinks twice: Network detected. Trying to connect. ON: Connected to the network (*).
⌁	**Bluetooth connection**	Blinks once: Bluetooth connection ready. Blinks twice: Device paired.
RUN	**Operating System status**	Blinks once per second when system is ready.

V	External power supply	ON: Transformer power supply is OK. OFF: Transformer power supply is not detected.
TX / RX	RF communication	RF communication in progress.

(*) "Connected to the network" doesn't guarantee Internet connection is available.

Installation

PRELIMINARY

- A Samcla Smart Platform user access account is required to proceed with the HUB installation.
- If you have no user access account, please download the Samcla Infinite HUB APP to your smart phone or tablet and sign-up.
- Sign-in by using your credentials.
- Please check your LAN (Local Area Network) firewall in the way that OUTPUT ports TCP 8001, TCP/UDP 123 and TCP/UDP 53 are open.

DHCP (AUTOMATIC) ETHERNET CONNECTION

- Confirm the network server is ready to operate in DHCP (automatic) mode.
- Connect the Ethernet cable to the HUB.
- Power on the HUB and wait until de "www" led remains ON and "i" led remains OFF. Now HUB is on line. Please refer to status leds section for further information.
- Start the Samcla Infinite HUB APP and log in. Add a new HUB following screen indications, then enter HUB settings and enable the HUB.
- Exit HUB settings.

STATIC (MANUAL) ETHERNET CONNECTION

- Confirm the network server is ready to accept the expected static (manual) IP mode.
- Connect the Ethernet cable and power on the HUB.
- Start the Samcla Infinite HUB APP and log in. Add a new HUB following screen indications.
- Enter HUB settings in the Samcla Infinite HUB APP and start the Bluetooth connection to the HUB by means the "⌿" button.
- Set up static Ethernet connection and send it to the HUB.
- Wait until de www led remains ON. Please refer to status leds information if needed.
- Enable the HUB.
- Disconnect the Bluetooth connection to the HUB by means the "⌿" button.
- Exit HUB settings.

WI-FI CONNECTION

- Confirm the Wi-Fi network server is ready and the Wi-Fi signal level is high enough in HUB location.
- Start the Samcla Infinite HUB APP and log in. Add a new HUB following screen indications.
- Enter HUB settings in the Samcla Infinite HUB APP and start the Bluetooth connection to the HUB by means the "✹" button.
- Set up Wi-Fi connection and send it to the HUB.
- Wait until de www led remains ON. Please refer to status leds information if needed.
- Enable the HUB.
- Disconnect the Bluetooth connection to the HUB by means the "✹" button.
- Exit HUB settings.

FAQ'S

Should I add the new HUB to the platform before powering the HUB?

No. The HUB can be added to the platform whenever you like, only PSN is required to do that.

WWW led remains ON, but there is no Internet connection.

Led WWW ON guarantees the HUB is properly connected to the network. Internet connection is something concerning the network, not the HUB. Please, check with your smart phone that Internet is available through the network.

WWW led remains ON, I've checked the Internet connection with my smart phone, but the Samcla Smart Platform is unable to reach the HUB.

Please contact the network administrator in order to confirm that output ports TCP 8001 and TCP/UDP 53 are open in your Firewall.

Everything works fine, but "i" led remains ON.

HUB is not able to get the current time clock. Please contact the network administrator in order to confirm the output port TCP/UDP 123 is open in your Firewall.

Can I use both, Ethernet (ETH) and Wi-Fi connection?

Yes, sure. ETH connection has higher priority during scanning. Once a network connection is established it will remain connected until a connection loss or a device reset. If a Wi-Fi connection is established and you want to recover the ETH connection, unplug and plug again the ETH cable in order to force a new scanning.

Notices and Licenses for Software

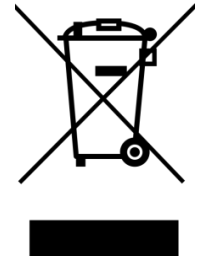Please, refer to https://oss.samcla.com for more information.

Certificate of Conformity to European Directives

SAMCLA - ESIC, S.L. declares under its sole responsibility that the HUB reference HUB412B8P complies with the standards of the European Directives of "Radio Equipment" (2014/53/EU).

Waste electrical and electronic equipment

This symbol (right) is shown on this product. It indicates that the product should not be disposed of with regular household waste, but should be disposed of separately. Electrical and electronic equipment can contain materials that are hazardous to the environment and human health and therefore should be disposed of at a designated waste facility or returned to your retailer for the appropriate recycling to take place.

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