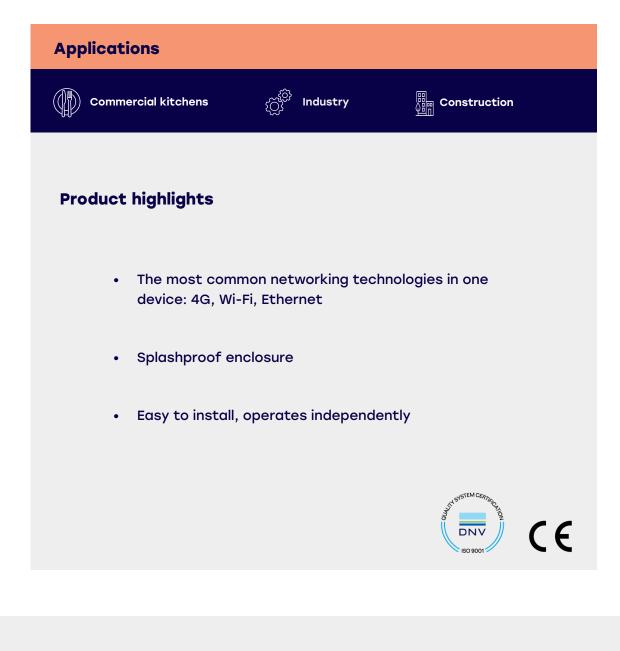# NSnappy® Hub 4G LWEU-N

Base station

NSnappy® Hub is a robust 8-channel indoor LoRaWAN® gateway. Hub transmits all data from wireless measurement devices to NSnappy® cloud service.

Adopting SX1302 LoRa chip and high-performance quad-core CPU, Hub supports connection with more than 2000 nodes. The device has line of sight up to 15 km and can cover about 2 km in urbanized environment.

Applications

| Commercial kitchens | Industry | Construction |

Product highlights

- The most common networking technologies in one device: 4G, Wi-Fi, Ethernet

- Splashproof enclosure

- Easy to install, operates independently

NSnappy® Hub 4G LWEU-N
Base station

Environment

Storage conditions	-40...+85 °C, relative humidity 0-95%, non-condensing
Operating conditions	-40...+60 °C, relative humidity 0-95%, non-condensing
Protection class	IP65
Enclosure material	Plastic

Dimensions

Dimensions	180 x 110 x 56.5 mm
Installation	Desktop, wall or pole mounting, wall-mounting kit included

User interface

Reset-button	1 x RST
Console port	2 x Type-C
LED indicators	Front panel: 1 × POWER, 1 × STATUS, 1 × LoRa, 1 × Wi-Fi, 1 × LTE, 1 × ETH
Built-in	Watchdog, RTC, Timer

LoRaWAN

Protocol	LoRaWAN standard, V1.0 Class A/Class B/Class, V1.0.2 Class A/Class B/ Class C
Antenna	2 x internal antennas
Channels	8 (Half/full-duplex)
Frequency	863-870 MHz (LoRaWAN 1.0.2 EU band)
Power	Max +27 dBm
Sensitivity	-140 dBm @ 292 bps

Ethernet interface

Port	1 x RJ45 (PoE Power Delivery supported)
Physical Layer	10/100/1000 Base-T (IEEE 802.3)
Data Rate	10/100/1000 Mbps (Auto-Sensing)
Interface	Auto MDI/MDIX
Mode	Full tai Half Duplex (Auto-Sensing)

Wi-Fi interface

Antenna	Internal
Standards	IEEE 802.11 b/g/n, 2.4GHz
Mode	AP or Client mode
Security	WPA/WPA2 authentication, WEP/TKIP/AES encryption