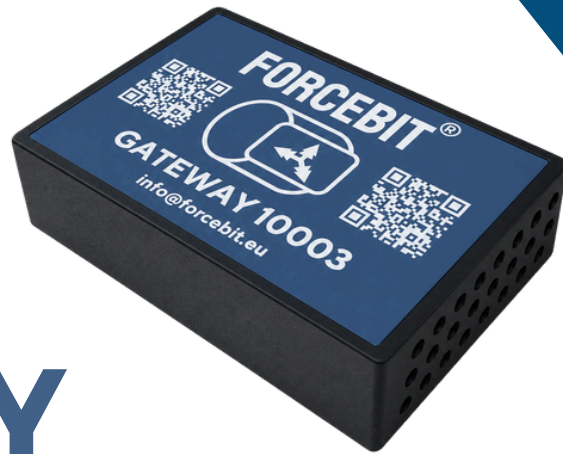


FORCEBIT SENSOR SOLUTIONS

GATEWAY



Wireless Wi-Fi access point as logging device or interface between the sensors and laptop/tablet

The gateway acts as a wireless access point between your sensors and your laptop.

It has two main functions:

- Maintain a low-power wireless connection to Forcebit sensors, maximizing sensor battery life.
- Setting up a **local Wi-Fi network** easily accessible by your laptop or tablet.

Moreover, the gateway can **stream data in real time** or store it locally for later retrieval. Its compact, fanless design and power bank compatibility allow for easy installation on or near the machine. The default IP rating is 40, with an optional upgrade to 52.

Unlike traditional configurations, the gateway is not tied to a specific sensor or fixed radio channel. It uses **adaptive frequency hopping** to minimize interference and ensure a stable connection, even in congested environments. One gateway supports up to 6 sensors, expandable to 12 with a second gateway.

Unlike conventional Bluetooth-based systems, Forcebit uses a dedicated gateway to enable synchronized real-time streaming from multiple sensors and seamless integration with external data acquisition systems via Ethernet and PTP time synchronization.



WiFi range	10-20 m	Data format	.csv or .h5
Ethernet interface	yes, with PTP protocol	Operating temperature	-20°C to 50°C
Storage	25 GB as default	Dimensions / weight	25x65x95mm ³ / 100g
Maximum number of sensors	6 (12 with 2 gateways)	Autonomy	24h (Anker prime power bank)
Time synchronization	10 μ s	Aggregated sampling rate	48 kHz

info@forcebit.eu

WWW.FORCEBIT.EU