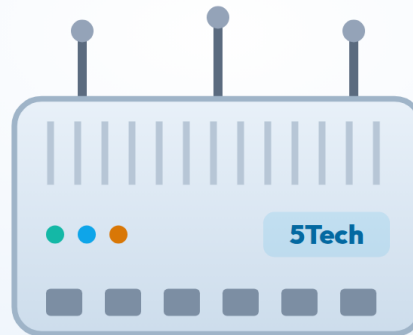


Sensorium™ Gateway — Industrial IoT Gateway

The Connect layer of the Sensorium™ family: links BLE sensor nodes to the cloud and dashboard over Wi-Fi / Ethernet (cellular optional), with MQTT and local edge processing.

sensorium-gateway · Sensorium™ · **Connect** · Revision Draft (Preliminary) · 2026-07-07

PRELIMINARY. This overview describes intended positioning and functionality. Detailed specifications live in the datasheet; anything marked [TBD] is pending confirmation and must not be treated as final.



SENSORIUM™

Sensorium™ Gateway

Sensorium™ Gateway — the ruggedized Connect layer of the Sensorium™ family.

Figure FIG-001 — Sensorium™ Gateway, the ruggedized Connect layer of the Sensorium™ family.

What it is

The **Sensorium™ Gateway** is the core industrial IoT gateway and the *Connect* module of the 5Tech Sensorium™ family. It connects the BLE smart sensor nodes — the **SmartBolt** and **SafeZone** modules built on the BLE Smart Sensor Node Platform — to the cloud and the 5Tech dashboard. It handles **MQTT** communication, supports **local edge processing**, and links field devices, sensors, and automation logic. Connectivity is over **Wi-Fi / Ethernet**, with **cellular as a targeted option**. A ruggedized enclosure and environmental sealing are targeted (preliminary) and not yet certified.

For full electrical, mechanical, environmental, and interface specifications, see the [Datasheet](#).

Where it fits

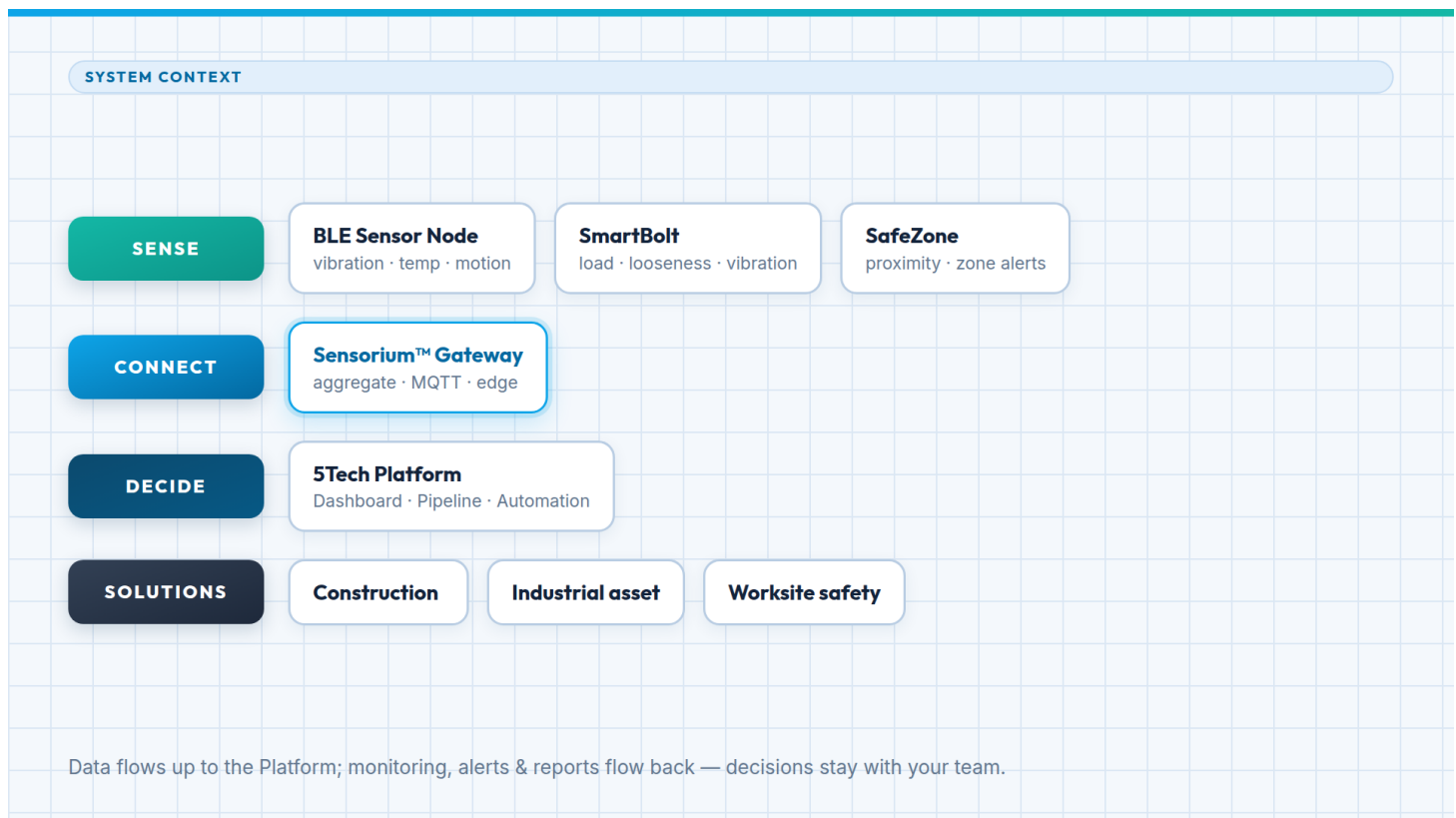


Figure FIG-002 — Sense → Connect → Decide. The Gateway is the Connect layer.

The Gateway is the bridge between **Sense** (the sensor nodes and modules) and **Decide** (the 5Tech Platform — dashboard, pipeline, and automation logic). Sensor data flows up through the Gateway to the Platform; monitoring views, alerts, and rule-based automation flow back — with a person in the loop for any operational decision.

- **Sense** — the BLE Smart Sensor Node Platform and its modules (**SmartBolt** and **SafeZone**), plus the **ESP32 Edge IoT Bridge** (Phase-1 MVP) that validates the sensor-to-cloud pipeline.

- **Connect** — the **Sensorium™ Gateway** aggregates node data and forwards it over MQTT.
- **Decide** — the **5Tech Platform** (dashboard, MQTT/cloud pipeline, edge and automation logic) turns data into monitored insight, alerts, and recommendations for an operator to act on.
- **Solutions** — Construction Site Monitoring, Industrial Asset Monitoring, Worksite Safety Automation, and Fleet & Mobile Asset Monitoring are built on this chain.

Highlights

- Local aggregation hub for the BLE smart sensor nodes — the **SmartBolt** and **SafeZone** modules and other nodes on the BLE Smart Sensor Node Platform.
- **Connectivity: Wi-Fi / Ethernet**, with **cellular as a targeted option** — no satellite or multi-path failover is claimed.
- **MQTT** uplink of sensor data to the cloud and the 5Tech dashboard.
- **Edge processing**: filter, buffer, and pre-process data locally before uplink.
- **Ruggedized enclosure and environmental sealing — targeted (preliminary), not yet certified** (no held IP rating).
- **Power input** options are being finalised ([\[TBD\]](#)).
- Secure, authenticated uplink to the 5Tech Platform.

Documentation for this product

DOCUMENT	WHERE	STATUS
Datasheet	../../datasheets/sensorium-gateway-datasheet/	Draft (Preliminary)
Manual	../../manuals/sensorium-gateway-manual/	<i>[TBD]</i>
Installation guide	../../installation/sensorium-gateway-installation/	<i>[TBD]</i>

Ordering

Order codes are being finalised. A base gateway (Wi-Fi / Ethernet, standard I/O) plus a cellular option and extended-I/O variants are planned; exact suffixes are [\[TBD\]](#) . See the [Datasheet ordering section](#) for the full structure and accessories.

Figures

ID	TITLE	FILE	ASPECT
FIG-001	Industrial Hero Render	<code>renders/hero_sensorium_gateway.png</code>	16:9
FIG-002	System Context — Sense → Connect → Decide	<code>diagrams/system_context_sense_connect_decide.png</code>	16:9

Overview is preliminary and subject to change. Specifications are held in the datasheet, not duplicated here. Figure prompts: `figures.json`.