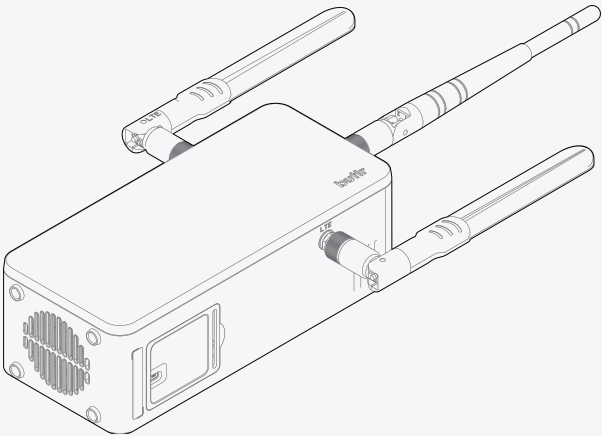# Hive (Cellular)

Secure networks, by Hive

Butlr Hive enables a secure wireless mesh network for seamlessly connecting Heatic sensors. Easy to set up and manage, the Hive gateway boasts a secure design for effortless management of deployed sensors.

butlr

Hive (Cellular) Quick Facts

Model Number: GWDSRSCL2

Dimensions: 8.5 x 6.5 x 4 in

Weight: 17.28oz (490g)

Operating System

Linux

Color Option

White

Compatible Sensor Models

Heatic 1, Heatic 2, Heatic 2+

Max number of connected sensors: 12

Configuration Interface

Butlr web-based interface/mobile app

Command Line Interface

(No touch screen on device)

Deployment

Indoor only

Hardware operating temp: 0 - 104 °F

Mounting: Commend Strips / Screws / Magnetic / Drop Rod

Warranty

Warranty as outlined by Butlr's purchase terms and conditions

Internet Connection

Cellular Standards: 4G LTE

Supported Bands: Frequency bands specific to the carrier and region

SIM Support: Single SIM slot (IoT SIM card)

Power Supply

USB-C Power Supply

Input: 100-240V~50/60Hz 0.8A

Output: 5.0V ⎓ 4.0A 20.0W

Security and Privacy

Data encrypted in transit (TLS 1.2) and at rest (AES256)

SAML Authentication via Auth0

TIER certified data centers

Annual internal audit security assessments

Annual external penetration tests

No personally identifiable data collected

SOC2 Type II

LTE Bands

LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28

LTE TDD: B38/B39/B40/B41

WCDMA: B1/B2/B4/B5/B6/B8/B19
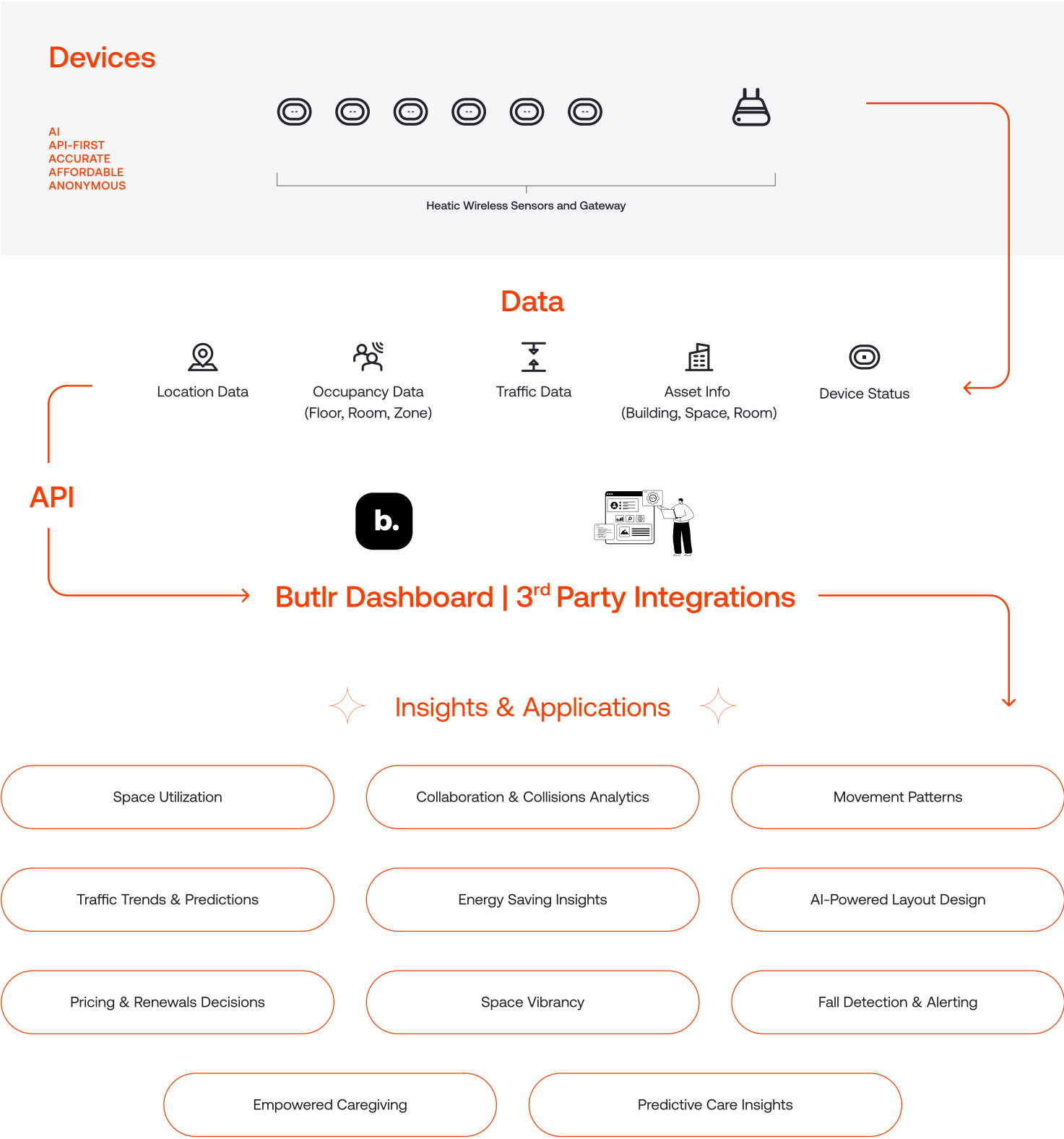
GSM: B2/B3/B5/B8

Regulatory

USA: FCC, TSCA, California Prop65

Canada: IC

EU: CE RED, RoHs, WEEE, EN 301489-1&17, EN 62368

Australia: RCM

Japan: MIC

Singapore: IDA

South Korea: KCC

India: WPC, TEC
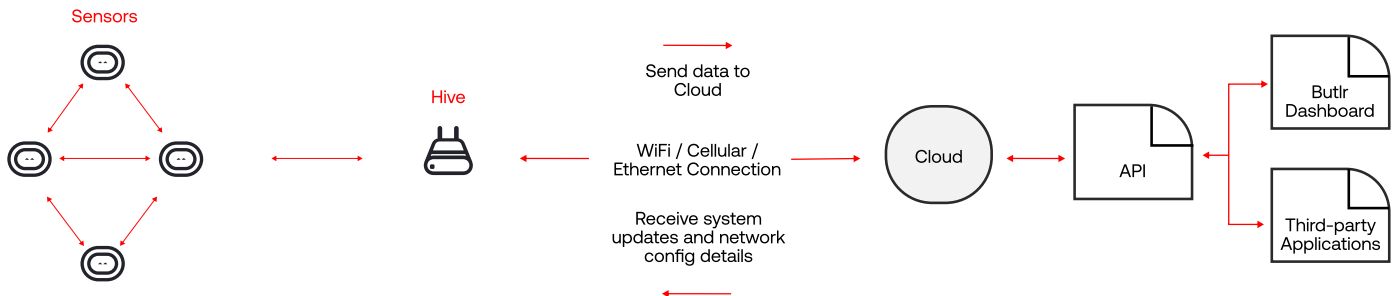
UK: UKCA

China: SRRC, CCC, CTA

World: CB

Contents

Platform Overview

Devices

AI
API-FIRST
ACCURATE
AFFORDABLE
ANONYMOUS

Heatic Wireless Sensors and Gateway

Data

Location Data

Occupancy Data
(Floor, Room, Zone)

Traffic Data

Asset Info
(Building, Space, Room)

Device Status

API

Butlr Dashboard | 3rd Party Integrations

Insights & Applications

Space Utilization	Collaboration & Collisions Analytics	Movement Patterns
Traffic Trends & Predictions	Energy Saving Insights	AI-Powered Layout Design
Pricing & Renewals Decisions	Space Vibrancy	Fall Detection & Alerting

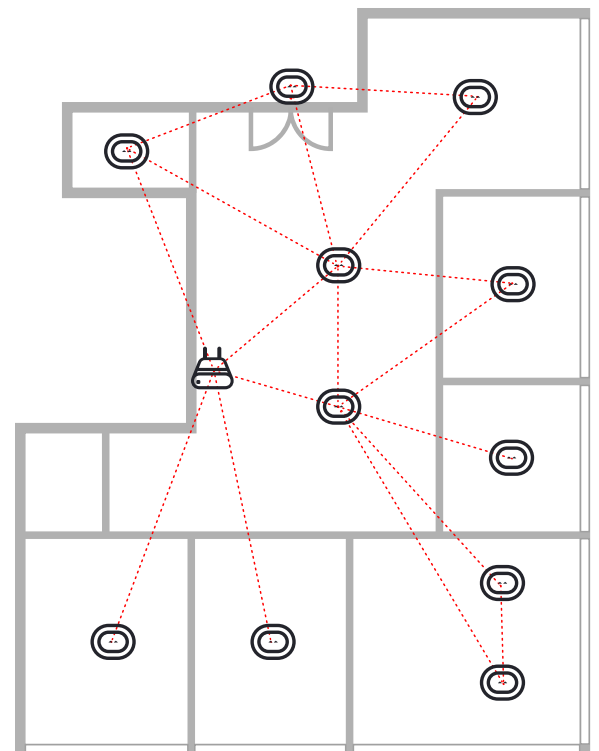| Empowered Caregiving	Predictive Care Insights

System Overview

Mesh Network

Heatic Sensors and Hives form a mesh network. The system works best when the distance between devices (from Hive to Sensors or from one Sensor to another) is less than 30 feet (10 meters), this greatly depends on what other devices are working on the 2.4GHz WiFi band in the area.

Device Group

To achieve the best real-time performance, each Hive should not be connected to more than 12 sensors. Specifically, the frame rate limit per device group is 36 frames per second (FPS). Traffic sensors run at 8 FPS, while Presence sensors run at 3 FPS. We recommend grouping devices based on proximity.

Hive

Heatic Sensor

Networking

Network Interfaces

Hive (Cellular)	4G LTE
Sensor	Proprietary Wireless Network Protocol

Network Configuration Options	DHCP configurations

Proxy Servers	Not supported

Firmware Update	Over-the-Air (OTA)

Sensor-Hive Mesh Network

Wireless Network Frequency	2.4GHz to 2.4835GHz

Wireless System Security	NIST Certified

Wireless Network Type	Self-healing Mesh

Wireless Network Protocol	6LoWPAN Internet Protocol (IP) and IEEE 802.15.4e Standards Compliant

Wireless Network Formation	Automatic

Wireless Network Reliability	>99.999%

Measurement type	Synchronized

Sensor Hardware Architecture	Programmable System-on-Chip

Hive Specs

General Specs

Operating System	Linux
Power Source	100-240 V AC Wall Power
Power Supply	5.0 V, 4.0 A USB-C power supply with US / EU / AU /UK /KR / CN / India plug adapter convertor
Network Connection	Cellular
Max. Number of Heatic Sensors per Hive	12
Compatible Sensor Models	Heatic 1, Heatic 2, Heatic 2+
Usage	Indoor only
Operating Temp. Range	0°F to 104°F (0°C to 40°C)
Operating R.H. Range	5% to 90% noncondensing
Warranty	Warranty as outlined by Butlr's purchase terms and conditions
Certifications	USA: FCC, TSCA, California Prop65 Canada: IC EU: CE RED, RoHs, WEEE, EN 301489-1&17, EN 62368 Australia: RCM Japan: MIC Singapore: IDA South Korea: KCC India: WPC, TEC UK: UKCA China: SRRC, CCC, CTA World: CB

Hive-Internet Connectivity

Cellular	Cellular Standards: 4G LTE Supported Bands: frequency bands vary by carrier and region. Butlr uses a certified SIM provider to ensure optimal connectivity. If a different SIM is preferred, contact the Butlr Support Team to verify provisioning and compatibility. SIM Support: Single SIM slot (IoT SIM card)

Physical Design

Weight	17.28oz (490g)
Dimensions	8.5 x 6.5 x 4 in (217 x 167 x 61 mm)
Enclosure Material	ABS
Configuration Interface	Butlr web-based interface/mobile app Command Line Interface (No touch screen on device)

LTE Antenna

Serial Number QR Code Label

USB-C Charging Port

Ethernet Port

Gateway Antenna

LTE Antenna

SIM Slot

Exhaust Vents

Standoff Feet

Keyhole

Device Label

Rubber Bumper

Mounting

Mounting Guide	support.butlr.io -> Mounting Guide

Hive-to-Wall/Ceiling	Commend Strips / Screws / Magnetic

Deploying Hives	When possible, space co-located Hives a few meters apart to minimize radio interference between Access Points. Multiple Hives can function effectively if local traffic remains within safe levels.

Flexible Mounting System

Command Strips

(Use only for wall mounting or mounting under a desk. Do not mount too high or on the ceiling)

Screws

(Install screws on the wall, then hang the Hive onto the screws using the keyhole slot on the back)

Disc Magnets (By-Request Only)

Magnetic Mounts for metal surfaces

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Thank you.