technotects
the technology architects

temperature   pressure   humidity   vibration   power   touch   GPS   gateway   cloud
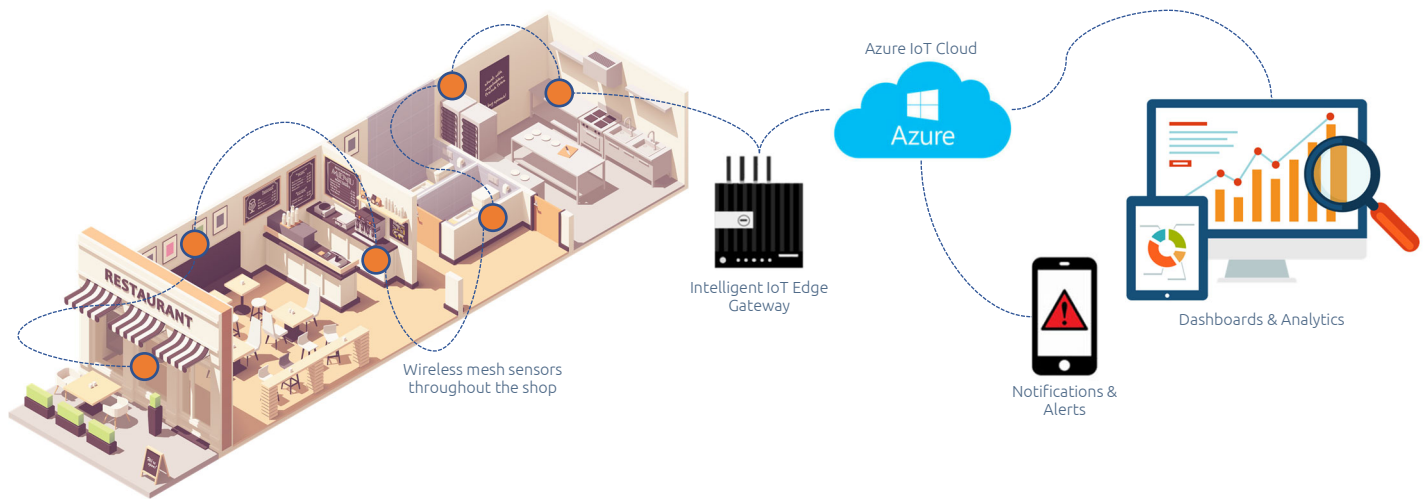
IIoT Solved: Creating smart spaces with wireless mesh sensors

Shop owners and restaurateurs have enough on their plate to worry about. Adding intelligent IoT solutions that incorporate simple, inexpensive Bluetooth or Wirepas beacon sensors could transform the whole shop into an intelligently operated space with ability to react to many types of situations efficiently, like equipment failures or open doors on display coolers or cold storage freezers. Technotects engineers designed the open-source IoT Edge solution, EdgeSmart™, to automatically discover, configure, scale and alert on data collected from tiny sensors distributed throughout the space, measuring temperature, humidity, barometric pressure, vibration and other critical environmental conditions.

Azure IoT Cloud

Intelligent IoT Edge Gateway

Wireless mesh sensors throughout the shop

Notifications & Alerts

Dashboards & Analytics

- Wirepas and Bluetooth Low Energy (BLE) mesh protocols
- Self-healing, multi-hop wireless connectivity
- Automatic sensor discovery and configuration
- On-board signal scaling, normalization and MQTT translation
- Wide range of compatible condition monitoring sensors

- Open-Source Edge X Foundry based EdgeSmart™ software stack
- RedisDB, Node-RED, Grafana, RSA Security, Azure IoT Hub
- Local data storage, analysis, KPI visualization and notifications
- Data integrity and security at rest and in-flight
- IoT Cloud connectivity for fleet-wide AI & ML

Why Mesh Around?

Wirepas and BLE Mesh running in the sensor devices enables a scalable, reliable, and cost-efficient IoT solution, with quick and easy installation and minimal maintenance. Collect data, manage and control devices, and track location with wide area connectivity for multiple applications, such as condition monitoring, asset management, smart lighting, and industrial IoT.

AIR HUMIDITY   TEMPERATURE   AIR PRESSURE   MOVEMENT   PROXIMITY

CONTACT US FOR HELP WITH YOUR NEXT IIOT PROJECT

technotects
the technology architects

Technotects, Inc.
140 Clemens Rd., Ste 200, Harleysville, PA 19438
215.361.8124 ext 111 | sales@technotects.com
www.technotects.com