

# Supported protocols

## Sensor Insights

Sensor Insights works with Open Technologies and Standards, making it easier to manage all of your sensors and gateways in one place, minimize disruption to existing infrastructure, and enable greater flexibility in IoT equipment used.

	Bluetooth Low Energy	LoRaWan	NB-IoT (Narrowband IoT)	LTE-M (Long Term Evolution for Machines)
<b>What it is</b>	Bluetooth Low Energy (Bluetooth LE, BLE) is a wireless personal area network aimed at applications in the healthcare, fitness, beacons, security, and home entertainment industries	The LoRa® specification is a Low Power, Wide Area (LPWA) networking protocol designed to wirelessly interconnect battery operated 'things' to the internet in regional, national or global networks for IoT use cases.	A standards-based Low Power Wide Area (LPWA) technology developed to enable a wide range of new IoT devices and services, specifically designed for low data rates and battery-sensitive applications.	A cellular technology designed specifically for IoT devices to connect directly to a 4G network, supporting higher bandwidth, mobility, and voice capabilities compared to NB-IoT.
<b>Range</b>	~10-50 meters (30 -150 feet)	~ 2 to 10 miles	10–15 miles+; optimized for deep indoor and underground penetration (e.g., basements, pipes).	7–10 miles+; offers excellent coverage for moving assets and urban environments.
<b>Governing body</b>	Bluetooth Special Interest Group (Bluetooth SIG)	LoRa Alliance	3rd Generation Partnership Project (3GPP)	3rd Generation Partnership Project (3GPP)
<b>Industries</b>	<ul style="list-style-type: none"><li>• Manufacturing and distribution</li><li>• Construction &amp; field services</li><li>• Agriculture &amp; food services</li><li>• Healthcare</li></ul>	<ul style="list-style-type: none"><li>• Retail and hospitality</li><li>• Utilities</li><li>• Agriculture &amp; food services</li><li>• Real estate &amp; facilities</li></ul>	<ul style="list-style-type: none"><li>• Utilities &amp; energy</li><li>• Smart cities</li><li>• Agriculture</li><li>• Industrial manufacturing</li></ul>	<ul style="list-style-type: none"><li>• Transportation &amp; logistics</li><li>• Healthcare</li><li>• Retail &amp; asset management</li><li>• Smart cities</li></ul>
<b>Use case examples</b>	<ul style="list-style-type: none"><li>• Asset tracking</li><li>• Remote patient monitoring</li><li>• Employee safety</li><li>• Access security monitoring</li></ul>	<ul style="list-style-type: none"><li>• Environmental monitoring</li><li>• Cold chain</li><li>• Power monitoring</li><li>• Smart buildings</li></ul>	<ul style="list-style-type: none"><li>• Smart metering (water/gas)</li><li>• Environmental monitoring</li><li>• Smart parking</li><li>• Pipeline infrastructure</li></ul>	<ul style="list-style-type: none"><li>• Fleet &amp; asset tracking</li><li>• Wearable health monitors</li><li>• Security systems</li><li>• Real-time logistics monitoring</li></ul>

Manage your IoT operations like a pro, without having to be an expert.  
For more information visit [thingspace.verizon.com/sensor-insights](https://thingspace.verizon.com/sensor-insights)

