



PLX-IOT

Configurable IoT Framework

Work with us to build your IoT solution

Plextek's IoT framework enables rapid development and deployment of customized IoT solutions, particularly those requiring extended operation on battery power.

Our IoT framework consists of edge nodes, gateways and a cloud server. It provides several advantages for those seeking to design and deploy an IoT solution. Our edge nodes require no infrastructure and can last on battery power for over a decade whilst providing regular updates from sensor readings. The edge node can host a wide variety of sensors as it supports a range of communication protocols including USB, I2C, SPI and UART.

Edge nodes can communicate wirelessly up to 3 miles in urban, and 10 miles in rural areas and do not rely on cellular or other network infrastructure. The edge nodes also support edge processing, including efficient implementation of neural networks and other advanced machine learning methods including support for tensorflow.

The gateway can support communication with several thousand edge nodes and provides the link between them and a cloud based server via an internet connection. Wi-Fi, Cellular, Ethernet and Satellite can all be supported.

Our cloud-based server provides for a convenient means to design a customized user interface meaning you can get to market quicker, with technical confidence.

Example Applications:

The IoT Framework can be used for a wide and diverse range of applications, including but not limited to:





Predictive maintenance



Activity detection



Asset tracking



About Plextek

We have a 30-year history of providing technology solutions to a variety of organisations.

Plextek understands today's key challenges for smarter technology development and can generate both the ideas and deliverable solutions to the assured level of security, performance, resilience and ergonomics that you need.

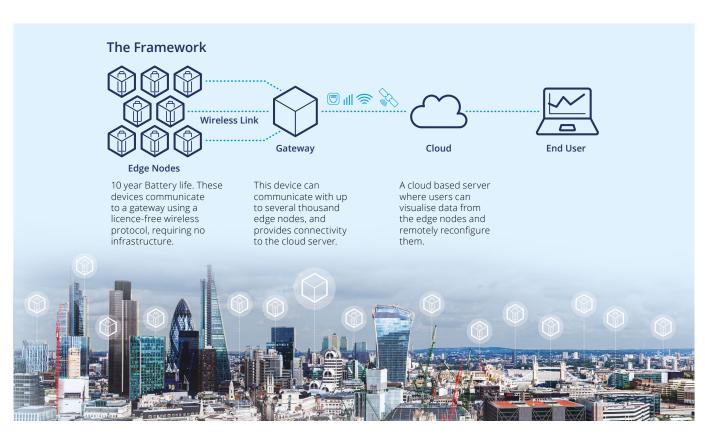
We are a product development & consulting company that works with clients to achieve results based on their specific requirements. Our engineering experience, supported by our library of IP for key technology elements, aids accelerated time to market and greater cost effectiveness.

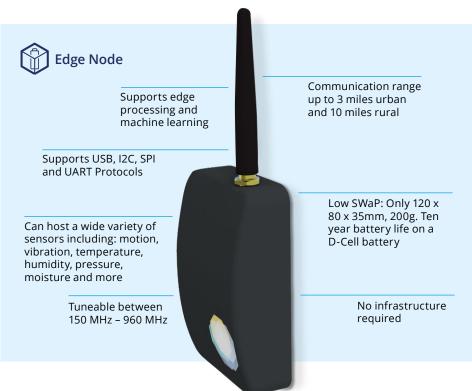






Smart city infrastructure







- » Supports communication with several thousand edge nodes
- » Provides the link between the Nodes and a cloud based server
- » Can support Wi-Fi, Ethernet, Cellular or Satellite links to the cloud
- » Size: 140 x 80 x 40mm Weight: 200g

