



The ability to draw on an ever-increasing array of data from a variety of sources, collectively “The Internet of Things” (IoT) presents a whole new paradigm of digital reach driven by an ever evolving and insatiable hunger for visibility and data driven interventions in connected business and service-based operations.

We are focused on delivering practical "Internet of Things" solutions into the Heavy Industry, Smart Infrastructure and Rail Infrastructure sectors. Where "off the shelf" solutions fail due to harsh conditions or power limitations we have a full suite of bespoke and scalable sensor devices. Our IoT ecosystem combines the physical devices with cognitive mesh networks and cutting- edge block chain security.

By embracing new technologies Vortex offers tailored solutions for delivering cost effective deployments and evidence- based interventions to asset, device and resource management that will enrich any organisation's decision or command & control solution and capabilities. Our IPR and innovations include a blend of intuitive cloud and fog-based systems, Edge Computing, Artificial Intelligence (AI), and blockchain security combined with bespoke IoT sensor design capabilities.

Vortex IoT combines cloud capabilities with business intelligence and bespoke design of low-power wireless sensor networks to deliver step change enablement to operations management. With ever more sensors attached to personnel, vehicles plant and equipment there is a greater need to secure and validate the produced data prior to processing.

The Vortex IoT ecosystem consists of several layers covering key stages in the process. The sensor layer comprises both "off the shelf" sensors and bespoke sensors incorporating cognitive mesh technology. Data collected by the sensor layer is passed to the Edge Computing IoT Gateway where it is validated using block chain security and processed using sensor fusion and machine learning AI to improve accuracy and relevance. At this point real-time interventions are actioned.

Finally the refined data is passed to either on premises or cloud storage where data analytics can be applied to gain essential business and operational insights.

Ultimately real-time data can be presented securely to interested parties for management and operational purposes.

The Vortex IOT subscription is from £20 per sensor’ or ‘from £0.01 per GB of data’.

Vortex IOT

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