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Firmwave® Edge Delivers Unparalleled Sensor Network Security using Intel Quark™ technology.

Firmwave® Edge is the first low-power, wireless sensor network platform powered by Intel® Quark™ MCU technology. Designed to meet the challenges faced by today's organisations rolling out IoT projects, Firmwave Edge modular hardware and firmware architecture allows organisations to quickly and securely deploy edge devices across diverse network types.

Organisations wishing to deploy IoT solutions can be overwhelmed by the myriad of sensor and network communication protocols and standards they encounter. Currently enabling IoT solutions is expensive and requires highly bespoke solutions, particularly at the enterprise level. This level of fragmentation makes IoT deployments lengthy, costly and inefficient. Using Intel® Quark™ technology for sensor data collection and Intel® Atom™ for gateway aggregation, Firmwave are able to address these issues by aggregating the communications from the diverse sensor types and connectivity networks across a secure network platform. Enterprises benefit from having a seamless end-to-end connectivity experience, enabling them to capture and securely manage the vast amounts of data transacted between their IoT devices. Organizations can for the first time, access a secure and scalable data delivery channel from edge IoT sensors and IoT gateways across multiple networks including Zigbee®, Thread, Wi-Fi, Bluetooth, LoRa®, SIGFOX™ and Cellular.

Building on the success of Firmwave Edge Series 1.0, Firmwave is now launching the next generation Edge 2.0 and 3.0 wireless sensor platform based on the latest Intel® Quark™ MCU technology. Edge 2.0 (Quark D2000) and Edge 3.0 (Quark SE) provide the same flexible modular hardware and firmware architecture that support wireless technologies including Zigbee, Thread, RFID, NFC, Wi-Fi, Bluetooth, LoRa*, SIGFOX* and cellular. These modules enable easy, reliable and secure data collection at the extreme edge of the network on tiny low power nodes. Edge built-in connectivity, security and sensing modules dramatically reduce the need for hardware and firmware customization allowing customers to easily connect their devices across heterogeneous networks. Firmwave Edge comes with a host of on-board sensors including Temperature, Humidity, Light, Pressure, Accelerometer, Gyroscope, Magnetometer as well as a 36-pin expansion connector providing flexibility and extensibility to meet diverse customer applications.

Edge 2.0 and 3.0 extends on the advanced security features of Edge 1.0 via the optional secure authenticator chip extending security down to the device level and securing data collection and transfer at every end point. Furthermore, Firmwave's integration with Asavie Passbridge™, a leading IoT connectivity management platform, delivers unparalleled network security for customers that need end-to-end infrastructure on which to run their IoT application layer.

Firmwave Edge sensor platform supports tiny operating systems including Zephyr™ and comes with a complete commercial software stack, SDK and tools supporting application development for real-world applications from logistics to smart buildings, healthcare and other applications. Firmwave also provides a platform of software tools and cloud APIs that simplify the integration of multiple wireless sensor network technologies in a single deployment through a single dashboard providing

remote management capabilities, diagnostics, and over-the-air upgrades that significantly reduce device maintenance costs.

The latest Edge sensor platform will be on show at Intel IDF IoT Community Showcase (Booth 125), with availability to direct partners later this year in Q4 2016.

About Firmwave®

Firmwave® is an innovative product and solution design company that specialise in designing ultra-low power hardware and firmware for IoT and wearable devices. Firmwave® have decades of experience in designing and delivering smart connected sensor products and have a successful track record in delivering commercial and industrial grade IoT hardware and firmware to customers in healthcare, smart home and smart office markets.