

Wzzard™ Edge & IIoT Starter Kits

- + Wzzard Wireless Sensing starter kits provide an easy entry point into exploration of Industrial IoT applications.
- + Each kit uses low power wireless mesh sensing technology to provide a non-intrusive and easy to install method of monitoring key parameters of business-critical assets.
- + Use the starter kits to quickly deploy IIoT proof-of-concepts and demonstrate business cases such as improved asset utilization, decreased energy consumption, reduced unplanned downtime and more.
- + Wzzard Edge Starter Kits provide local-network dashboards using Node-Red hosted on Wzzard Gateway.
- + Wzzard IIoT Starter Kits add cloud connectivity using Advantech's WISE-PaaS. These IIoT Starter Kits are designed to provide our partners an accelerated on-ramp to true IIoT solutions which can be scaled to an enormous range of use cases and business opportunities.

Stacklight Monitoring Starter Kit

The Wzzard Stacklight Starter Kit includes a sensor strip with three photo transistor sensors and attached cable, a Wzzard sensing node and an Ethernet gateway. The peel-and-stick sensor strip adheres to stack lights, monitors the On/Off status of the red/yellow/green lights and transforms it into reportable, measureable data to manage and optimize production processes, detect quality issues, reduce downtime and free up manpower.



Condition Based Monitoring Starter Kit

The Wzzard Condition Based Monitoring Starter Kit monitors and reports vibration and temperature data of machines, motors, bearings to proactively assess device health in real-time, schedule preventative maintenance before costly breakdowns and downtime occur. The kit includes a low-power temperature/vibration sensor and cable, Wzzard M12 industrial node, M12 cable, magnetic mounting plate and Ethernet gateway.



HVAC/Compressor Starter Kit

The Wzzard HVAC Monitoring Starter Kit monitors and reports current and differential temperature data of HVAC units for tracking and reducing facility energy costs. The kit includes two clamp-on current sensors (compressor, fan), two thermocouples, Wzzard conduit industrial node and Ethernet gateway.



Refrigeration Starter Kit

The Wzzard Refrigeration Monitoring Starter Kit monitors and reports refrigerator/freezer temperature, door open/close and current draw for early fault detection, inventory quality control, loss prevention and health code compliance. The kit includes a temperature/humidity sensor, two clamp-on current sensors (compressor, fan), thermistor cable, door sensor cable, Wzzard sensing node and Ethernet gateway.



Energy Starter Kit

The Wzzard Energy Monitoring Starter Kit monitors and reports energy consumption of machines, circuits and processes to assess real-time health, schedule preventative maintenance, reduce energy costs and improve the environmental footprint. The kit includes two clamp-on current sensors, Wzzard M12 industrial node, M12 cable and Ethernet gateway.



| Application | Product & Sensor Format | Local Network Solutions – wireless sensing for on-premises monitoring with Edge Kit Models: |
|-------------------------------------|---|---|
| Availability/Utilization Monitoring | Commercial Low-Power Wireless Sensing – photo transistors (stack light) | BB-WSK-SLM-2 |
| Condition-based Monitoring | Industrial Low-Power Wireless Sensing – temperature, vibration | BB-WSK-CBM-2 |
| HVAC/Compressor/Fan Monitoring | Industrial Low-Power Wireless Sensing – current, differential temperature | BB-WSK-HAC-2 |
| Refrigeration Monitoring | Commercial Low-Power Wireless Sensing – temperature, humidity, current, door | BB-WSK-REF-2 |
| Energy Monitoring | Industrial Low-Power Wireless Sensing – current | BB-WSK-NRG-2 |
| Contents - bundled kits include: | | Wzzard Node, Sensors & Cables, Gateway with Cloud license and Node-RED Starter Flow with web server |

Applications

- Data centers
- Food processing & storage
- Industrial automation
- Power plants
- Quarries & mining
- Agriculture
- Water treatment
- Oil depots
- Facility HVAC automation
- Brownfield site

Also Available - sensors, nodes, recipes

The same sensors and nodes bundled with Wzzard starter kits are sold separately. Customers who already have a starter kit can add more sensors and nodes to expand their mesh network.

- Vibration Sensor Ultra-low power temperature/vibration sensor Model# BB-HS-104T2505402
- 6 DI Sensor Industrial 6 digital-input node, conduit Model# BB-WSD2C06010
- 6 DI Sensor Industrial 6 digital-input node, M12 Model# BB-WSD2M06010
- Stack Light Sensor Light sensor strip cable, 3 photo-transceivers Model# BB-WCD-LSSCBL
- Light Sensing Node 3 analog inputs, Vbat Out, internal antenna Model# BB-WCD1H3001HP100
- OSI PI Recipe Node-RED Wzzard data transmission to OSIsoftPI System Free Download
- Microsoft Azure Recipe ... Node-RED Wzzard data transmission to Microsoft Azure Free Download

Contact Advantech for customized sensors, hardware and kits for unique applications or OEM needs.

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