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شركة خدمات الكمبيوتر الكويتية
KUWAIT COMPUTER SERVICES

Smart IoT Technology for

DATA CENTRE

Data Center Environment Monitoring

A data center covers the network's most critical system and prime functioning. Every business and organization needs a reliable facility for IT infrastructure.

Watch*NET* IoT Sensors are easy to install and monitor and control the environment, easily scalable with add-ons as needed for expansion.

The precise location of a water leak under the raised floor can be easily detected along with the other key metrics. Air conditioning control, switch monitoring, UPS status, vibration, temperature humidity - all are displayed on the dashboard.

How System works?

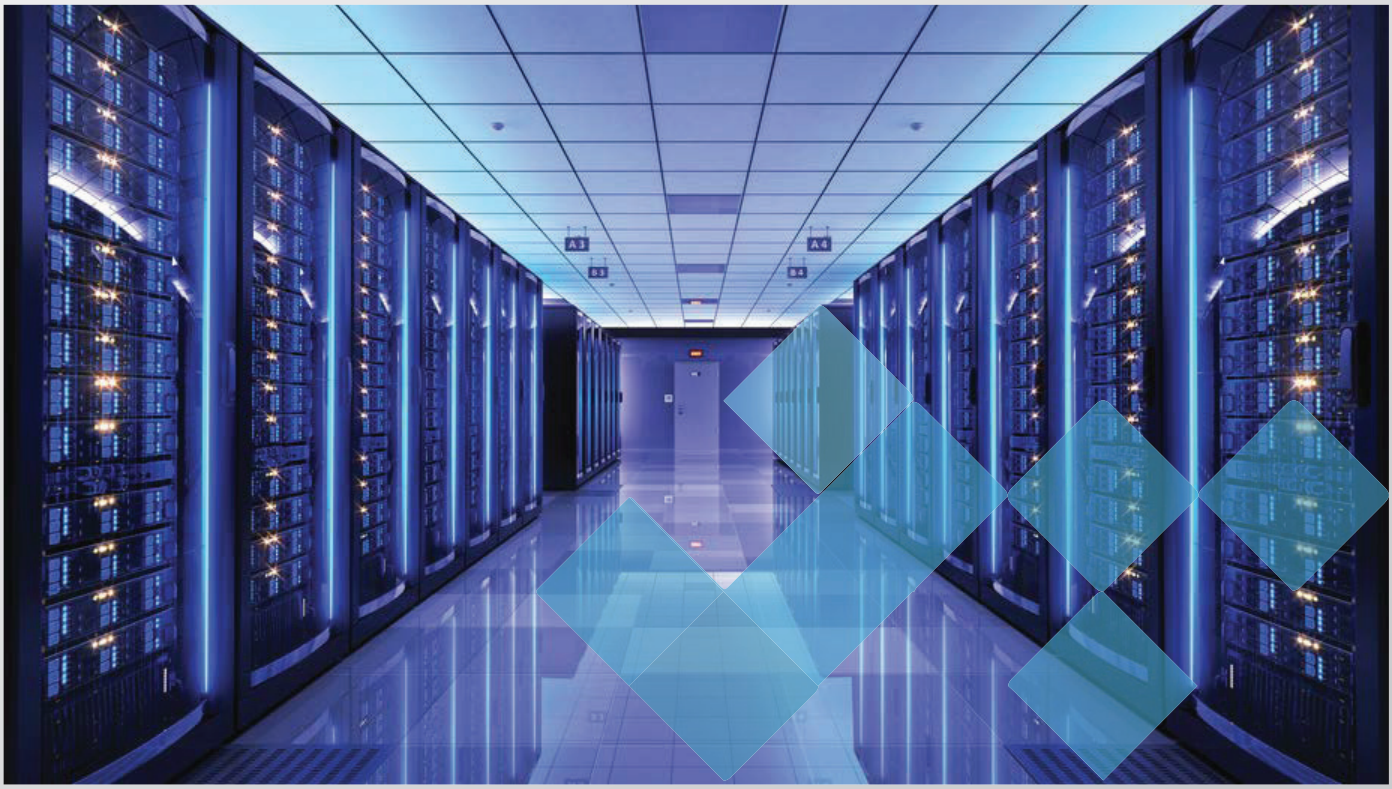
Some of the functions that can be listed are monitoring temperature, humidity, hot/cold air pressure, air flows, carbon dioxide emission, detecting leakages, smoke and flood, providing per-rack environment displays, custom airflow mapping, overall environment KPIs, environment dashboards and more. A key benefit from all this is dynamic baselining and threshold violation alerting.

What is IIoT ?

- Industrial IoT brings equipment, machines, advanced analytics and people together on one, meaningful and informational platform.

- IIoT is a network of multiple industrial devices connected by secure communications technologies that result in one ecosystem that can collect data, monitor, exchange, analyze and deliver valuable new insights like never before to today's performance-oriented workplace.

- These insights can then drive businesses to making smarter and faster business decisions that help save energy, learn operating patterns and perform predictive maintenance for commercial, industrial and small businesses.



Measurable Key Metrics

Few of the metrices that Watch*NET* IoT can monitor and analyze in Data Centres are:

Humidity & Temperature of the data centre at different points

Wireless Temperature and Humidity Sensor For Low Temperature

This commercial-grade sensor can be used to monitor the environment and notify individuals via text message, email or phone call through our hosted web platform when and if the values go out of the optimal range. This sensor is rugged and IP65 rated for a humid and moist environment. This device has a magnetic back panel that can be mounted on any metal surface.

WLRC-S17

Monitoring of Doors - opening/closing of server racks and entry/exit

Wireless Dry Contact Interface

This sensor can be connected to external dry contact devices such as various switches, buttons, relays and reed switch outputs. It can detect the closure or any signal that gets disconnected from the dry contacts.

WLRC-I14

Water Leak Detection under a raised floor

Wireless Water Leak Detection and Location Sensor

This water leak detector sensor can pinpoint the location of where the water touched the rope. When mostly installed under elevated flooring and building risers, it helps to know the location of the water and take necessary action to limit the damage. The location data is sent to the gateway and alerts are also sent out.

WLRI-S46

UPS Monitoring IN/OUT AC current: single-phase or three-phase

Wireless 3-Phase Current Metre with 3x150A Clamp-On

This commercial-grade current meter can be used to monitor the current usage of any equipment whether it is single-phase or three-phase. The device comes in a sealed box making it moisture-proof and withstands extreme conditions. This device can be installed on any metal surface as it comes with a built-in magnet. The core of this sensor that goes around built-in live wires can be opened, and are easy to install on an existing set-up. Current monitors can help in predictive maintenance of any equipment.

WLRC-M3150

Server and Switches - Power Monitoring and Remote Restart

Wireless Plug-and-Play Power Outlet with Consumption Meter

This power plug can support up to 15 Amps powering most of the residential/commercial power equipment. It is ideal to monitor power for machines that need to be switched ON all the time. It helps monitor power consumption, voltage, electric current, power failure and daily usage when connected to any equipment. It works great for extending the life cycle by identifying frequently used equipment as in gymnasiums.

WLRI-P11M

Vibration Sensor for Server Racks

Vibration Sensor, Spring Type

This commercial-grade vibration detection sensor can be used to detect vibrations on mechanical equipment and on any surface used to monitor vibration. The device is small and has a sleek design, making it easy to install and handle. This device can be used to monitor machinery - vibrations if too many or none at all and count per day. This device helps in predictive maintenance by analyzing the daily efficiency of the machine.

WLRC-S19S

Split Air Conditioner - Temperature Control and Remote Cycling between Operating and Standby Mode

Wireless IR Blaster

This infrared blaster can be used for understanding infrared signals from any remote control and reproduce the same signal to control equipment remotely. It can be used for controlling split air conditioning units that only have built-in temperature control.

WLRI-IRB1

Other Special Application Devices: Audio Visual Alert, Occupancy Sensor, Power Meter with Remote On/Off

Wireless Siren

This wireless annunciator can be used with any Watch*NET* IoT devices to generate sirens which can be triggered by a condition/event of another device. This device has high powered speakers and LEDs to seek the attention of personnel around. They are enabled with high-powered speakers and LED strobe lights. Multiple alert tones can be assigned to different kinds of alarm conditions.

Multiple alert tones can be assigned to different alarm conditions.

WLRI-SR1

Gateways

Watch*NET* IoT gateways are one of the smart and intelligent devices within our IoT ecosystem.

It collects data from devices that do edge-based processing and then sends it to the cloud for storage, display and analytics.

This gateway works as a stand-alone controller to link devices connected to it and triggers actions accordingly to input logic to output devices. Basic or complex rules can be set on this gateway, that can work in an online or offline state within the network.

- Edge-based Data Processing
- LAN, WAN and Connectivity
- Low Bandwidth Consumption
- Built-in Wi-Fi Gateway

Wireless Smart IoT Gateway

This intelligent smart gateway provides connection to the cloud and control of devices connected. Multiple technologies for communication such as LAN and WiFi makes this gateway deployment easy in any building. Easy installation and configuration makes it ideal for small or large environmental monitoring and control projects. The built-in powerful antenna is capable of receiving long-range signals.

WLRI-G11

Mini Smart Gateway

This small form factor smart gateway provides connection to the cloud and local control of devices connected to it. It is easy to install and configure making it ideal for small environmental monitoring projects as it is also economical. The built-in powerful antenna is capable of receiving long-range signals.

WLRI-G12

Watch*NET* IoT Cloud Software & Mobile APP

- ✔ Around-the-clock monitoring
- ✔ Compatible with over 100 sensors & devices (LoRa & NB-IoT)
- ✔ Real-time status update
- ✔ Instant alerts and notifications
- ✔ Customizable dashboard & floor layouts with quick data visualization
- ✔ Manage data from one platform
- ✔ Intuitive report with accurate historical records
- ✔ Powerful eMAP - data visualization with actionable decisions
- ✔ Enhanced data logging
- ✔ Impressive web-based interface and mobile APP
- ✔ Powerful offline linkage feature enables the devices to act in critical scenarios, even if the smart suggestions and warnings
- ✔ Intelligent analytical engine can provide smart suggestions and warnings

Data Center Sensors and Gateways

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WLRC-S17

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Wireless IR Blaster

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Wireless Dry Contact Interface

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Wireless 3-Phase Current Metre with 3x150A Clamp-On

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Vibration Sensor, Spring Type

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