

### **VCONTACT US**

Please feel free to contact us if you are interested in or considering purchase our products. Should you have any further questions, please do not hesitate to contact us. We will contact you as soon as possible.

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### **IoT with Okamoto Electrionics**



岡本無線電機株式会社 OKAMOTO ELECTRONICS CORPORATION

## Trading company specialized in electronic components

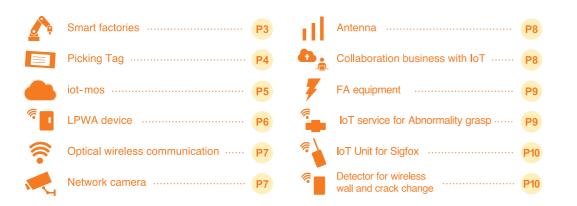
OKAMOTO ELECTRONICS CORPORATION

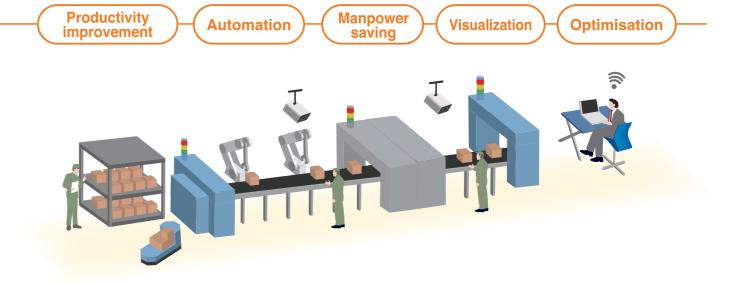


We provide electronic components, unit products, network system and cloud services, which are indispensable to society, with our own added value.



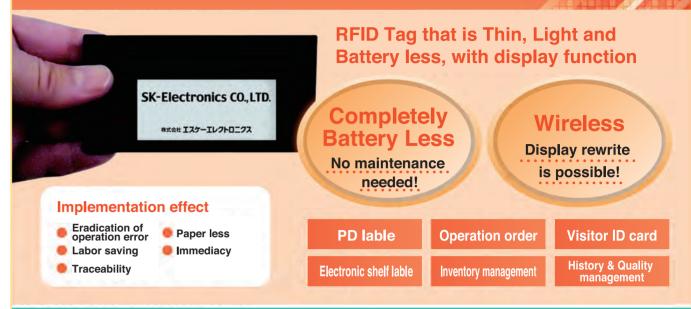
## Realizing smart factories With IoT







### **Electronic Paper Tag**







# iot-mos

## Easy IOT with the sensor you want to use

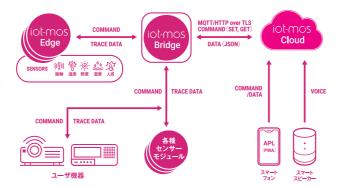
IoT platform service to realize from prototype to mass production

## iot-mos Platform

IoT mos is an IoT platform that provides an integrated environment from prototypes to mass production and services for IoT products.

We provide integrated system construction services using sensing devices, clouds, smartphones, speaker systems, etc.





### Various sensor support



Multiple mounting of any sensors Expandable according to the conditions

### Various wireless support



Wireless sensor data is realized via WiFi/BLE

### **Cloud support**



Cloud data logging is possible

### 株式会社ダイセン電子工業 DAISEN



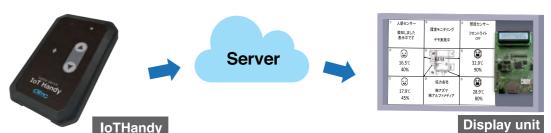


### **一** 岡本無線電機株式会社

## LPWA device Environmental monitoring system (DEMO)

We will customize according to various usage scenes.

### System configuration



### **Various functions**

LPWA, GPS, Temperature and humidity sensor, Acceleration sensor, Barometric pressure sensor, Magnetic sensor, Illuminance sensor, Battery

### Various functions

\*These functions are custom-made.

LPWA, Low power consumption LCD, Human sensor, Illuminance sensor, Watt meter, SD card, ⇒Solar panel, Storage battery can be installed

### Introduction image and effects

	Environmental monitoring		
	Prevention	Cost reduction	
	Working site	Indoor environment	Logistics
Needs	To prevent heat stroke among workers	To manage the environment inside the factory	To control the temperature and humidity inside the truck To know the track position information
Method	IoT Handy + Display development ⇒Disconfort index, WBGT value analysis	loT Handy + Display development ⇒Temperature and humidity data analysis	LTECatM1unit + Display development ⇒GPS, Temperature and humidity data analysis
After introduction	Collectively manage environmental information of all workers Immediate notification of dangerous area	Collectively manage the factory environment Immediate notification when threshold is exceeded	Streamlining travel routes Immediate notification of abnormal temperature in the car











### **Optical wireless communication unit**

The 3rd communication methods follow after Wired and Wireless radio.

The world smallest class **SOT-TS100A** 







#### Features

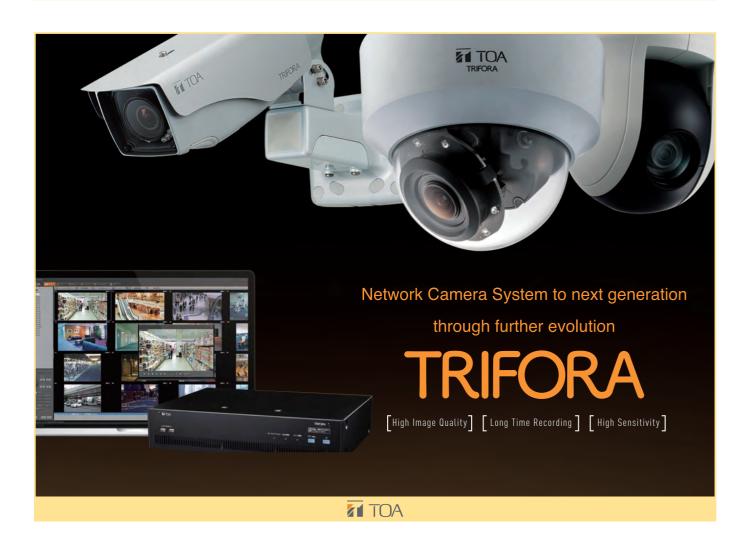
- No interference from radio waves,no interference from electromagnetic noise.
- High Security for One-to-One communication.
- Stable speed of 100Mbps.
- Almost no delay in communication.

### Optical wireless communication can be used in,

- Areas where electromagnetic interference occur.
- Areas where its difficult to establish wired facilities.
- Areas where needs frequent setup/remove of wired facilities.
- Areas where radio waves interference occur.
- Areas where landscape preservation is needed.
- Areas where radio waves can not reach.



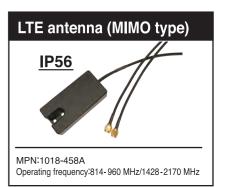
#### **TAIYO YUDEN**

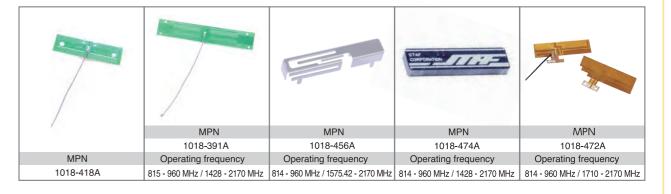


### Standard Antenna Lineup (LTE•LPWA•920MHz band)







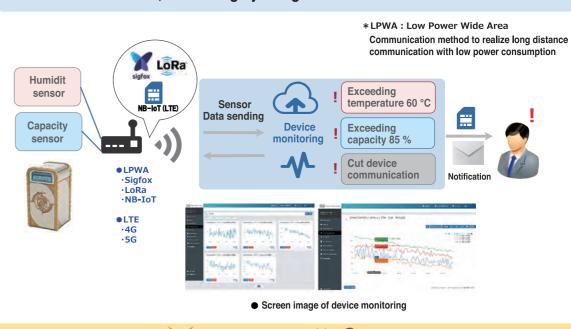


Staf corporation

## Proposal for IoT business by the collaboration between Okamoto Electronics and IIJ Global Solutions Inc.

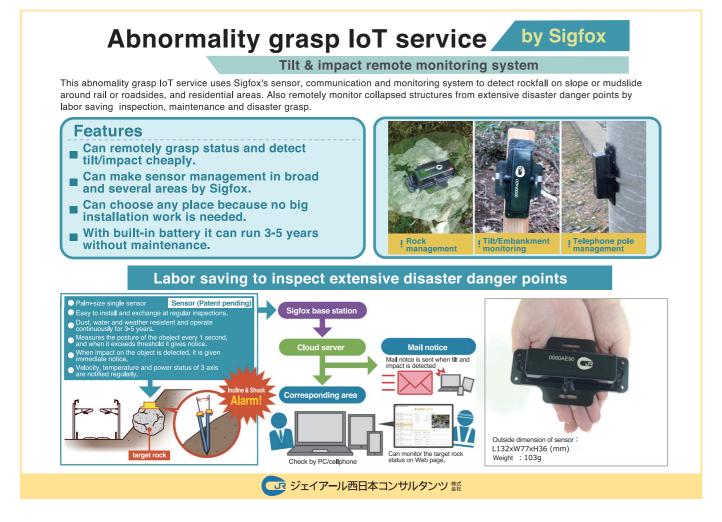
We offer basic function needed when you are considering IoT system by one-stop service.

IoT Business model; Monitoring by using communication module such as LPWA\*



₩ 岡本無線電梯株式会社 X 図 IIJ Global





### Sigfox IoT Unit with 2 Analog and 4 Digital input Connect up to 6 signals to sensor and switch Facility operation/ **Environment/** Error notification/ **Operation time/ Regular notification Energy** Malfunction Monitor the atmosphere, water quality, facility operation status and notification alert with just one unit. Example (Monitor humidification equipment) ■ Specification Model number SFOD1(temporary) 65x130x25.8 (mm) External dimension Antenna Communication Sigfox Temperature ower supply DC24V (Spring type terminal) F input (DCO-5V)x2点 Regular notifica Digital x4 e-Con Connector Magnet Mounting method Optional accessories | 1.5m extention cable for antenna る。 霧のいけうち

