ORing IOT Industrial M2M Gateway / Router

IMG-4312D+-D4G
- Support Modbus TCP/RTU industrial protocols
- Support MQTT/MQTT Sparkplug B/CoAP/LWM2M Cloud protocols
- Support VPN for secured network connection (OpenVPN, PPTP, IPSec)
- Support Firewall features
- Support LTE Cat. 4 with up to 150Mbps downlink and 50Mbps uplink data rates
- Support dual mini SIM card slot
- Support 1x RS-232/422/485 Serial port in DB9 connector

ORIO-G30218
- LPWAN Wireless Technology
- Generic for all IoT solutions
- Easy Setting & User Friendly
- Ultra Low Power Consumption

IDS-4312D+
- Support Modbus TCP/RTU industrial protocols
- Support MQTT/MQTT Sparkplug B/CoAP/LWM2M Cloud protocols
- Support VPN for secured network connection (OpenVPN, PPTP, IPSec)
- Support Firewall features
- Event warning by System logs, SNMP Trap, E-mail
- DIN Rail and Wall mounting type
- Support 2x 10/100Base-T(x) Ethernet ports

ORDO-G60200-NB / ORIO-G80112D5-NB
- LPWAN Wireless Technology
- Generic for all IoT solutions
- Easy Setting & User Friendly
- Ultra Low Power Consumption
- Ergonomic housing design
- Dual type antenna (External / Internal)
- Easy Mounting

Features		IDS-4312D+	ORDO-G60200-NB / ORIO-G80112D5-NB	ORIO-G30218	IMG-4312D+-D4G
Internet access	Cellular	-	NB-IoT / Cat-M1	NB-IoT / Cat-M1 / 4G LTE	4G LTE
	Dual-SIM	-	-	-	✓
	Ethernet WAN	✓	-	-	✓
Device connection Interface	Ethernet	✓	-	-	✓
	802.3af PoE PD	✓	-	-	✓
	WiFi AP	✓ (802.11n)	-	-	✓ (802.11n)
Digital Input/Output		1/1	1/1	4/4	1/1
Serial Interface		1 x RS-232/422/485 (4-Wire, 2-Wire)	1 x RS-485 (2-wire)	2 x RS-232/422/485 (4-Wire, 2-Wire)	1 x RS-232/422/485 (4-Wire, 2-Wire)
MagiConnect (Remote Network Access via Ethernet)		✓	-	-	✓
MagiConnect (Remote Network Access via serial)		✓	-	-	✓
MagiCollect (Remote Data collecting and Analysis)		✓	✓	✓	✓

ORing 100% Solution

- Vertical Market/ Project Requirement
- Product Selection
- Field Site Survey
- Product Installation
- Field Site Test
- Technical Support Services

MagiConnect
MagiCollect

So Far, Yet So Close

A work-from-home solution is no longer a "nice to have" but a "must have"

ORing PaaS Cloud

Get Connected Anytime, Anywhere

ORing
www.ORingnet.com

2020.07

Benefits of working from home

Working from home was once a euphemism for slacking off, but the advancement of technology has changed people's mindset. The outbreak of the coronavirus in 2020 has reinforced the importance of a work-from-home plan for businesses to keep their operations uninterrupted. While the outbreak has eased, businesses have recognized the necessity of having a work-from-home solution in place at all time, whether to prepare for emergency remote work or to improve the efficiency and productivity of daily work.

Here are some benefits of working from home for both employees and employers.

For employers
- Increase business agility by reducing meetings and outdated workplace practices
- Save operating costs such as office rent, electricity, and office supplies
- Improve employee retention as employees are happier

For employees
- Save commute time
- More concentrated and productive by work in a way that best suits them
- Achieve a better life/work balance

What can ORing offer?

If you already implement a work-from-home plan, ORing can help you achieve better outcomes. If you are considering remote work, ORing will guide you through this change. Here is what ORing's WFH solution can offer !

One-stop shopping experience
ORing's comprehensive WFH solution consists of SaaS and media gateways to provide reliable and secure network connections anytime and anywhere. Therefore, your distributed workforce can safely access sensitive data without compromising your network. As all functions are available through an intuitive control panel, device operations and management is easy and efficient, which translate into higher productivity.
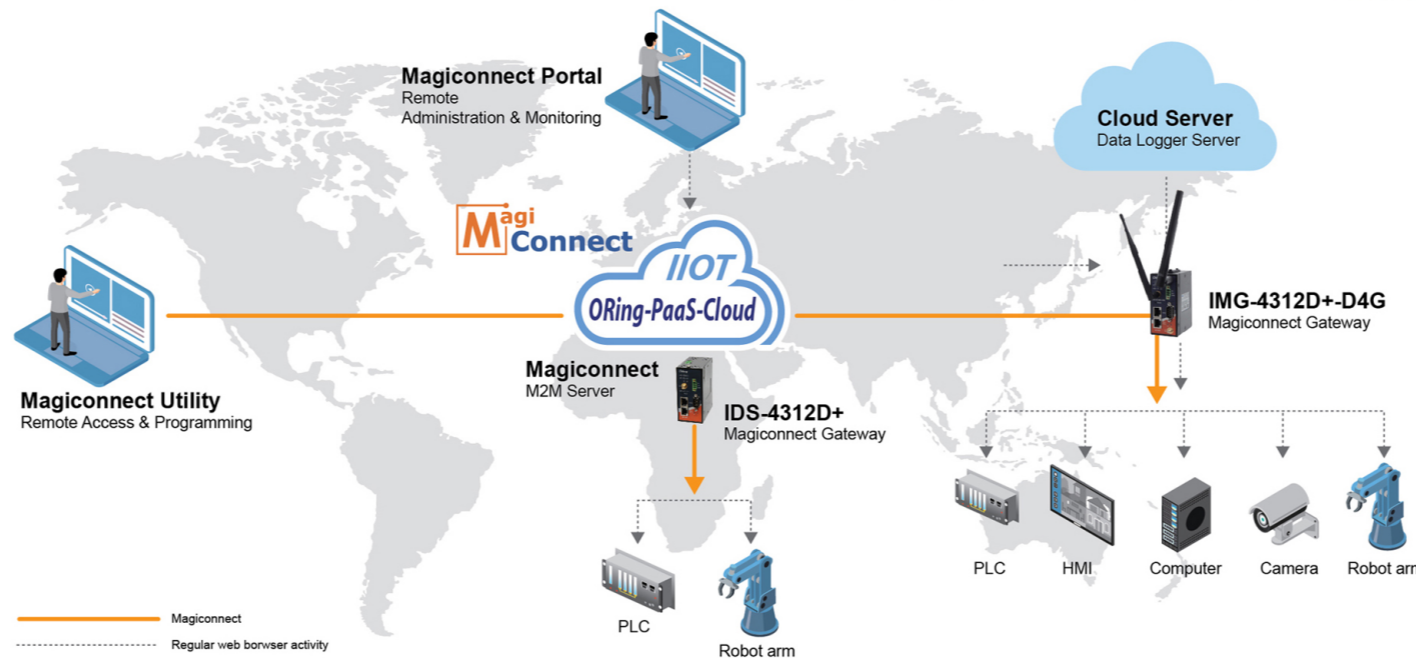
Time is money
Whether the devices are located in factories or public areas, remote workers can access them without visiting the sites. This is especially valuable for companies with several branches or factories because workers can save a lot of time on traveling and use the time on more important projects or work. T hey can also use the data collected from any MQTT-driven devices and sensors to track the operations of the devices, thus identify and solve problems before they affect operations.

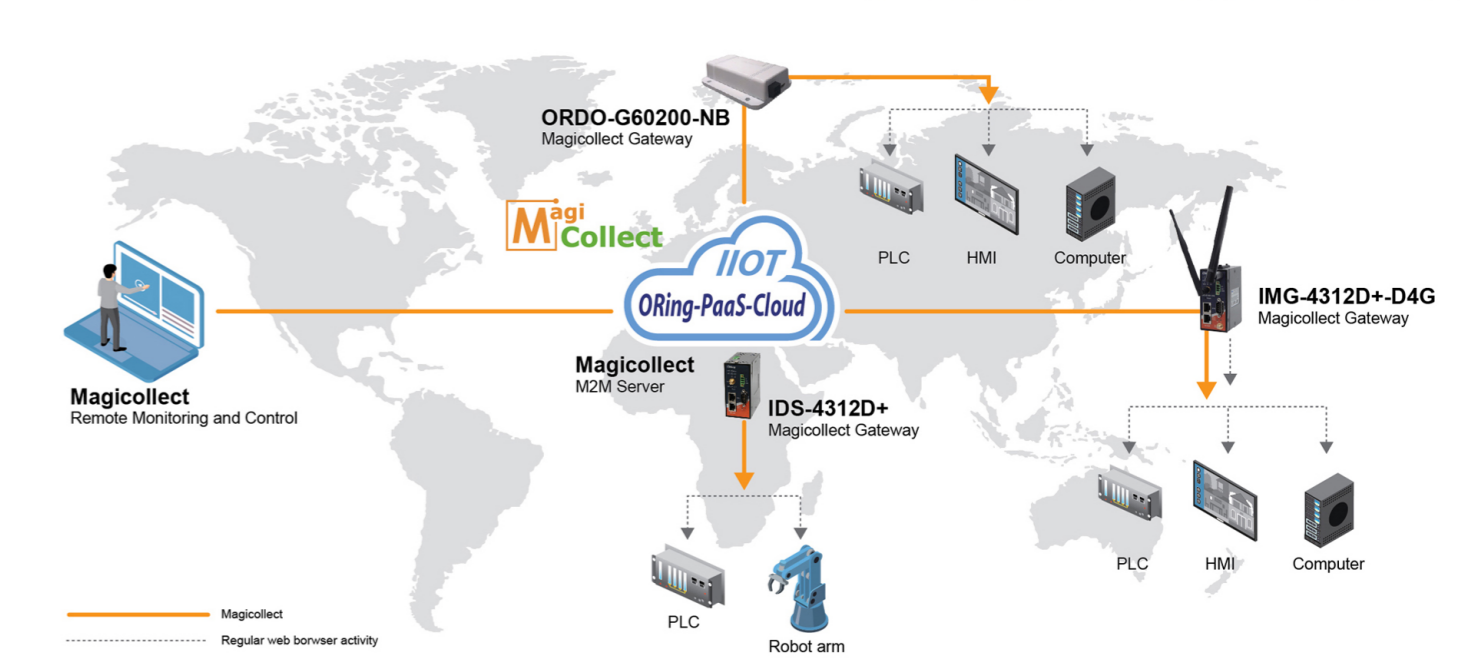## About MagiConnect System

Magi Connect

Through the M2M connections enabled by ORing's MagiConnect, administrators can perform remote troubleshooting, programming, in-field monitoring, and data logging of every machine in an efficient way. No networking expertise or skills are needed because the dashboard is so intuitive that remote workers only need to click a few buttons to perform various remote management functions.

Magiconnect Portal
Remote Administration & Monitoring

Cloud Server
Data Logger Server

Magi Connect
IIOT
ORing-PaaS-Cloud

IMG-4312D+-D4G
Magiconnect Gateway

Magiconnect Utility
Remote Access & Programming

Magiconnect
M2M Server

IDS-4312D+
Magiconnect Gateway

PLC   HMI   Computer   Camera   Robot arm

PLC

Robot arm

— Magiconnect
···· Regular web bonwser activity

Features

Industrial gateways come with security and connectivity
- ORing's M2M gateways are designed to facilitate status monitoring and data-collection for connected devices.
- Both IR-20D and IMG-4312D are able to provide connectivity locally or remotely with ORing's MagiConnect M2M cloud service.

▲ Status page

Scalable, flexible and highly secured industrial M2M cloud
- Machine connectivity without boundaries with ORing's Magiconnect M2M cloud.
- By using ORing's M2M gateways, machine administrators can gain remote connectivity such as connections to IP surveillance systems and real-time access to PLC and HMI devices.

▶ Add new gateway

About MagiCollect System

Magi Collect

ORing's MagiCollect collects device data from each factory and store it on the cloud where administrators and remote workers can access anytime and anywhere. With the consolidated data, they can monitor device operations, identify potential problems, and perform troubleshooting efficiently.
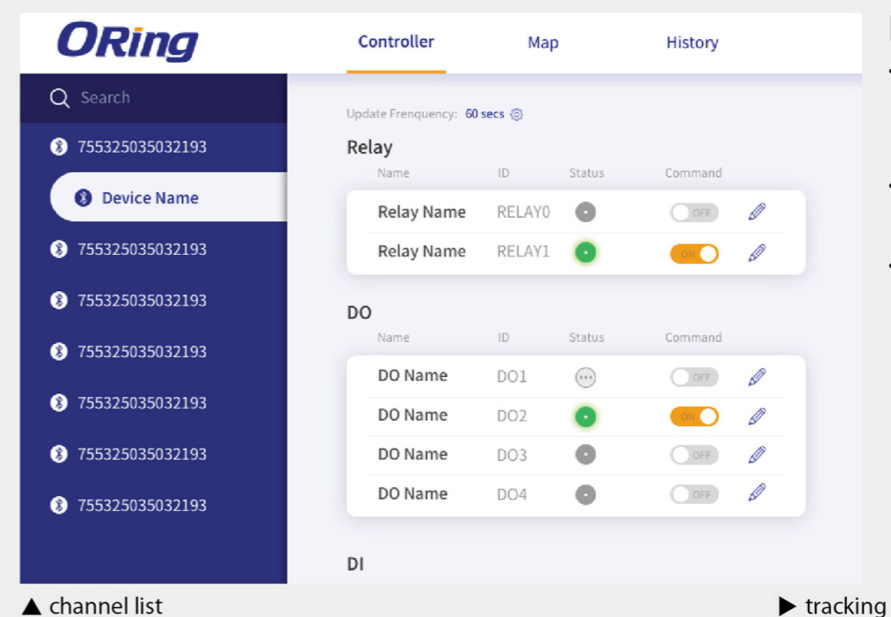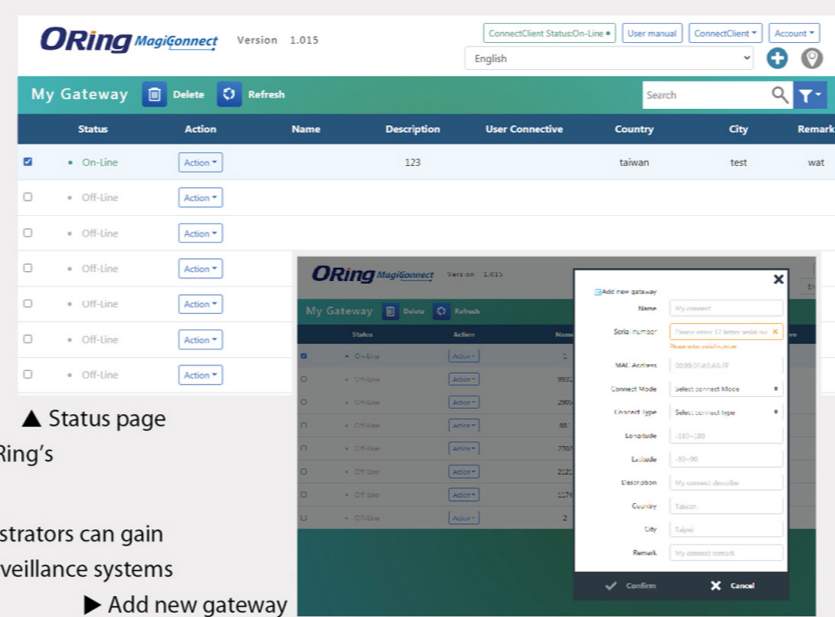
ORDO-G60200-NB
Magicollect Gateway

PLC   HMI   Computer

Magi Collect
IIOT
ORing-PaaS-Cloud

IMG-4312D+-D4G
Magicollect Gateway

Magicollect
Remote Monitoring and Control

Magicollect
M2M Server

IDS-4312D+
Magicollect Gateway

PLC

Robot arm

PLC   HMI   Computer

— Magicollect
···· Regular web bonwser activity

▲ channel list   ▶ tracking

Features

- Industrial gateways come with industrial protoocl converter to MQTT to develier device data to the ORing M2M Cloud.
- Machine connectivity without boundaries with ORing's MagiCollect M2M cloud.
- By using ORing's M2M gateways, machine administrators can gain remote data collection to collect real-time fromPLC and HMI devices.