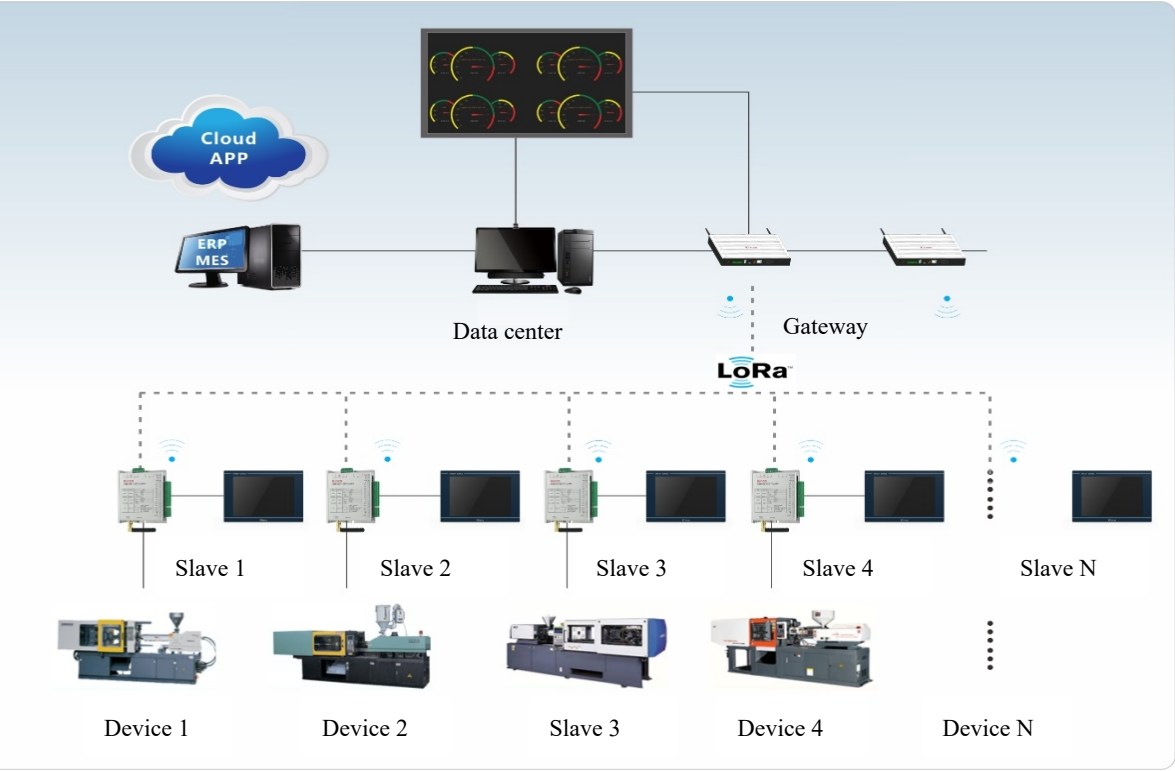


Typical application

Kinco OEE system solution



Via data acquisition unit, it cooperates well with Kinco data center, field intelligent terminal, etc so as to achieve data transmission in cloud.



Kinco KW 系列

IoT Data Acquisition Artifact

Description

- Provide Lora wireless communication interface, without the need for multi-node base station to easily network;
- The maximum speed is 250K in an unobstructed environment, and the longest distance is up to 2KM
- The wireless parameter configuration is simple, providing a convenient dedicated protocol networking, and the application can be configured with one click;
- Provide 12 channels of 10, CAN / serial port, can access the expansion module, can collect multiple types of equipment and sensor signals;
- Compact design, various mounting methods for guide rails and screws, standard antenna;
- Industrial design, high reliability, long-term stable operation

Specifications

Parameter	KW103-12DT-LoRa		KW203-12DT-R2	
Power				
Voltage	DC24V			
Voltage range	DC20.4V-28.8V			
Wireless communication				
Port	Port 2 support Modbus RTU, Free communication V2, Kinco PLC		Port 2 support Modbus RTU, Free communication V2, Kinco PLC	
Frequency	430 - 440 MHz		2402~2480MHz	
Max number of Node	33		65	
wireless distance	<800 m		Max to 2KM in unobstructed condition	
transmission rate	0.81-18.23Kbps		0.59~253.91Kbps	
Penetration ability	Strong		weak	
Suitable application	Suitable for low speed, small data transmission		Suitable for high data transmission at high speed	
I/O communication port				
I/O number	8*DI (sink type/source type) / 4*DIO (transistor)			
Maximum expansion module	12			
CAN port	Support CAN Open master station, CANopen slave station, CAN free communication function.			
Serial port	PORT0 is RS232, supports programming protocol, Modbus RTU slave, free communication; PORT1 is RS485, supports programming protocol, Modbus RTU master-slave station, free communication			
High speed input	4 channels, the highest frequency is up to 200KHz, support single phase and AB phase counting			
High speed output	2 channels, the highest output frequency is 200KHz (requires load resistance not greater than 1.5Ω)			
Edge interrupt	4 channels, I0.0-I0.3 can be set as rising edge or falling edge interrupt respectively			
Storage area				
Instructure	Maximum 4KB			
User data	M area with 1KB;V area with 4KB;			
Backup	E2PROM, 448 bytes, permanent storage			
Data retention	V area 2K bytes (VBO-VB2047). Lithium battery, can be used for 3 years at normal temperature			
Other				
Timer	256 1ms base:4 10ms base:16 100ms base:236			
Timed interrupt	2; 0.1ms time base			
Counter	256			
RTC	Error less than 5min/each month at 25°C			
Environmental specifications				
Temperature	-10~55°C			
Humidity	10%~95%			
Storage temperature	40~70°C			
Storage Humidity	10%~95%			
Cooling method	Natural air cooling			

Dimension (mm)

