

Industrial IoT Intelligent LED Display

iKAN Series

Modbus CANopen PROFIBUS DeviceNet PROFINET





Web Interface

ΪŢ

Real-time Message



Configuration via Mobile Devices IP65

Vol. iKAN_1.23.09_EN

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iKAN Overview

With the ubiquity of IoT technology, industrial products are now deployed for outdoor applications, transportation, and the leisure industry.

ICP DAS iKAN series - Industrial IoT Intelligent LED Display provides integrated features catering to specific requirements of various industries. Features include waterproof design, enhanced readability, mix-and-match font sizes, multilingual characters, and the web interface for development. Besides offering 9 basic languages (Chinese, English, Russian, Japanese, Korean, French, German, Italian, and Spanish), the iKAN series also supports 4 additional languages (Thai, Arabic, Hebrew, and Hindi).

Besides, the iKAN series can be directly integrated with ICP DAS DL/CL series Air Box Modules for environmental monitoring solutions. The combination enables quick and intuitive operations without additional configuration.

iKAN series supports built-in Modbus RTU/TCP protocols for seamless integration, allowing the product series to be configured easily to display data in various applications. Examples include applications for product lines, public transport, tunnel construction, and indoor/outdoor air quality monitoring.



Description of Functions





Easy-to-use

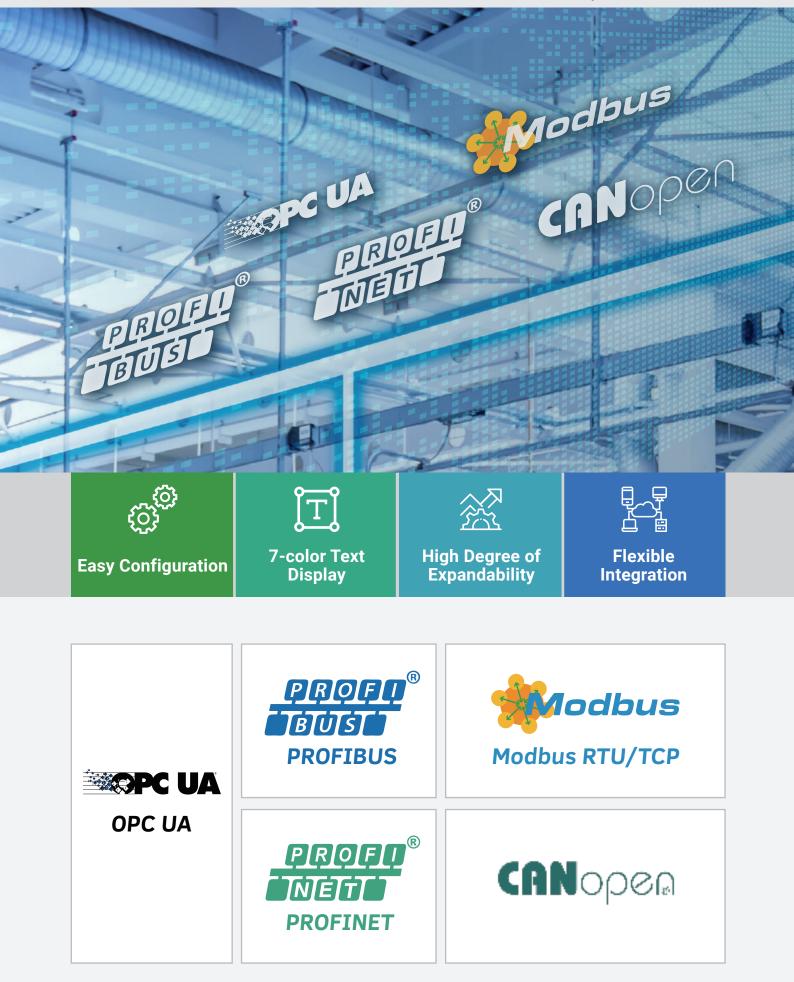
Support Multilingual Characters

Support Standard Modbus Communication Protocol

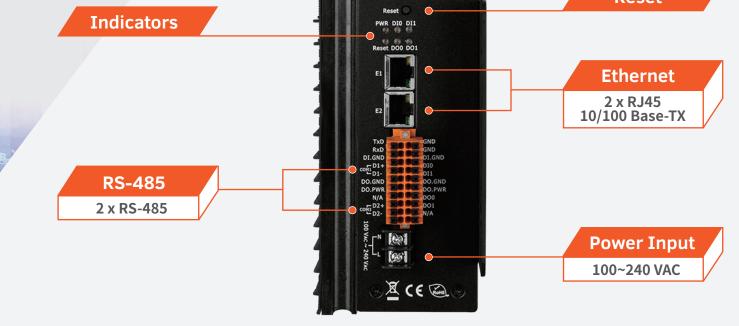
ICP DAS starts from the field of industrial applications, and introduces the iKAN series with a focus on practicability and user experience. iKAN series is designed based on the most commonly used communication protocol - Standard Modbus. It provides two physical communication interfaces RS-485 and RJ-45 Ethernet, and supports many protocols such as PROFIBUS, PROFINET, CANopen, OPC UA, and Modbus RTU/TCP. In practice, engineers can configure connections to the iKAN using physical cables, and complete settings through the built-in web interface which is intuitive and easy-to-use.

Display Multilingual Characters and TrueType Fonts

Industrial-grade iKAN series features protection against interference, robustness, and excellent integration capabilities, as well as displays multilingual characters such as Thai, Arabic, Hebrew, Hindi, Japanese, etc. The series also supports a 7-color text display using LED lights with high brightness, and TrueType fonts uploaded by users. The advantages allow users to configure displays for optimal readability in various environments.







Connection to Multiple LED Displays



iKAN LED display has a built-in 2-port Ethernet switch, avoiding the costs of purchasing additional switches. This feature simplifies the task of wiring and maintenance, and achieves connection to multiple iKAN series LED displays.

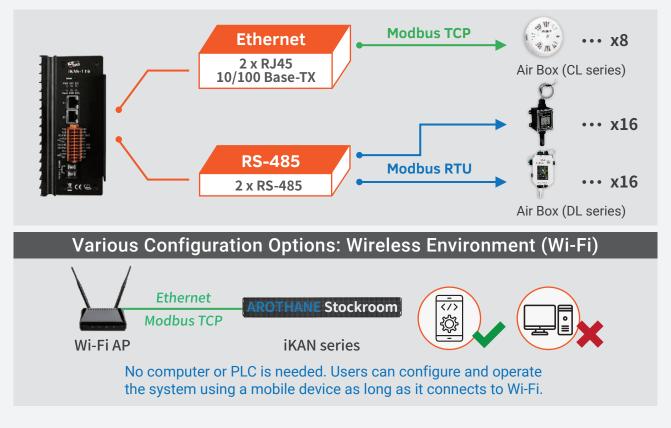
杉林溪森林牛熊渡假園區	> Ethernet
2822年81月82日(日)13:28	Ethernet
溫度: 13°C PM2.5: 8 ug/m3	Ethernet
湿度·74% 自離子·54400	Ethernet

iKAN Series

Industrial IoT Intelligent LED Display

Display Data Detected by Air Box Modules with No Programming Required.

Connect up to 8 air box modules on an Ethernet network, and up to 32 air box modules on an RS-485 network.



Ingress Protection

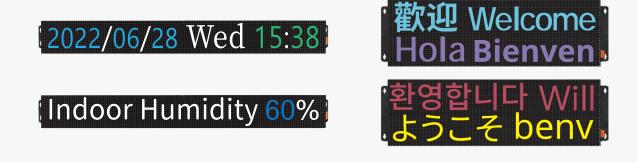


iKAN series is designed with an IP65 rating to meet industrial application requirements in harsh environments. The waterproof enclosure and protective connector interface are against ingress of dust and water, ensuring smooth operation of the equipment. Applications in practice: mines, construction sites, forest recreation areas, national parks, etc.

iKAN Series | Key Features

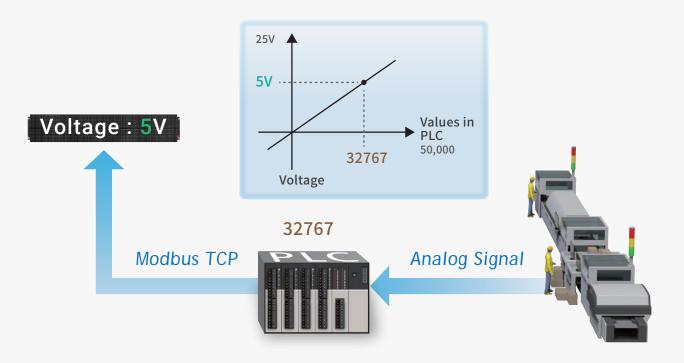
Support 7 Languages and 7-color LEDs

- Built-in functions: real time clock, perpetual calendar
- Multi-language support: Chinese, English, Russian, Japanese, Korean, French, German, Italian, Spanish
- 7-color text available: red, yellow, blue, green, sky blue, purple, white
- Unicode font support



Built-in function: numerical value conversion

 Modbus messages read back can be converted to corresponding numeric measurement values of current, voltage, temperature, etc.



iKAN Series | Key Features

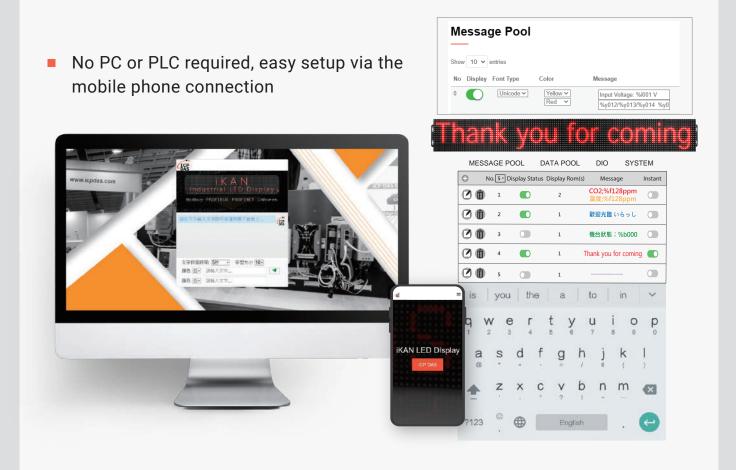
Support various communication interfaces & industrial communication protocols

- Support Ethernet interface (RJ-45), RS-485, PROFIBUS, CANBus
- Support Modbus TCP Slave, Modbus RTU Slave, CANopen, CGI Command



Offer Web-based Configuration Interface, Support Remote Operation via Mobile Phones and Tablets

PROF P BUS



CANOPER

iKAN Series | Key Features

Support TrueType Font Upload

Support Thai, Arabic, Hebrew, and Hindi



Support 600 Built-in Messages

Provide a database of up to 600 message settings for a variety of projects

ata	pool				
No	Display	Font Type	Color	Message	Priority
598	\bigcirc	Unicode 🗸	White V White V		\bigcirc
599	\bigcirc	Unicode 🗸	White V White V		\bigcirc

Support RESTful APIs

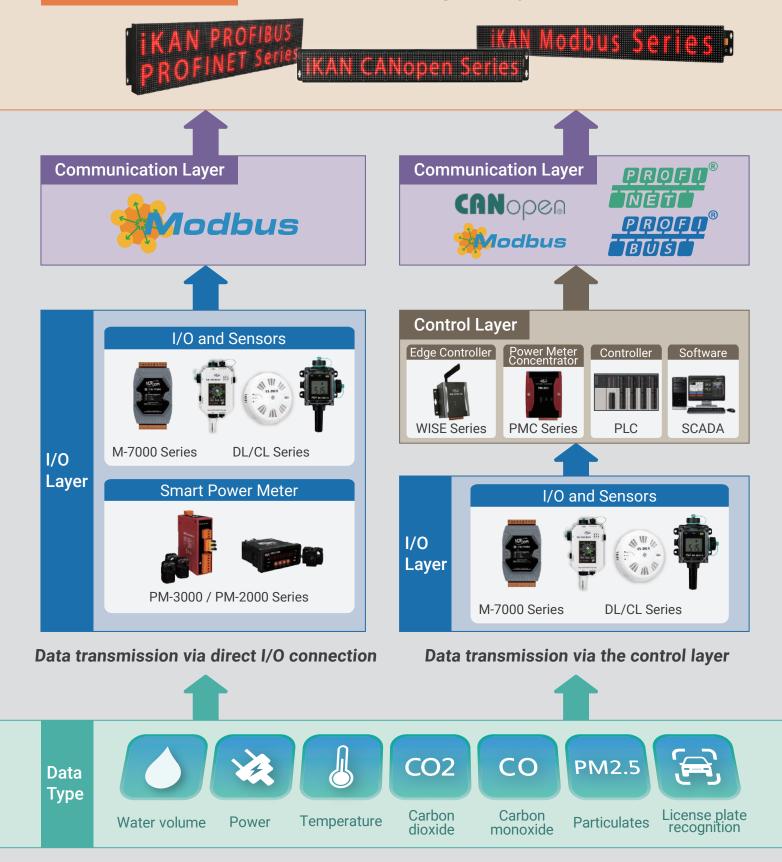
 By using the RESTful APIs, users can directly edit iKAN messages and make changes to the configuration, i.e. messages displayed, variables, and system parameters.



System Architecture

Industrial LED Display

Data transmission using various protocols



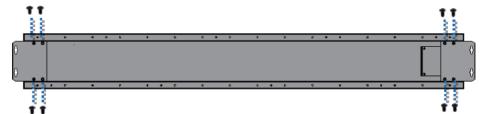
iKAN DATA SETTINGS

Hardware Installation & Configuration

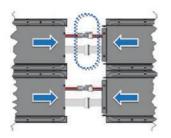


iKAN Hardware Installation

Secure the metal wall mounting brackets on both sides of the iKAN series LED display with screws provided in accessories

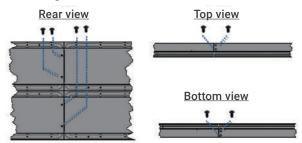


Connect the communication cables and power cables between the LED boards



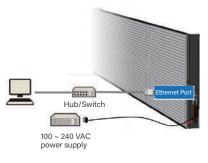


Position the LED boards side by side and secure them using screws



Configuration via the Web Interface

Connect to the computer Parameter settings via the web interface and power supply



- Download eSearch Utility from ICP DAS official website Default installation path C:\ICPDAS\eSearch
- S 1. Execute eSearch.exe in the installation



3. Input the parameters and click the OK button. The newly configured values will take effect after the automatic reset of iKAN (approx. a twosecond wait)

2. Double-click on the iKAN model searched by

Gateway t0 1.0 254

Exit

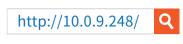


Operation Using Internet-connected Mobile Devices

Open a web browser and enter the IP address of your iKAN series LED display



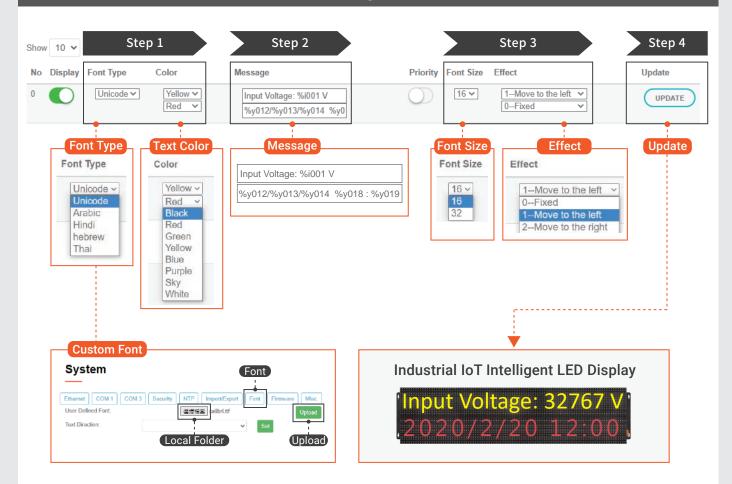
Exit



Web-based Operation Interface

Message Pool Settings

Message Pool



Mix-and-match Messages

Font Sizes

Text displayed in various sizes, each on a separate row

7-color Text Display Red, green, yellow, blue, purple, light blue, and white

Support Unicode/TrueType Fonts Text displayed in different fonts, each on a separate row



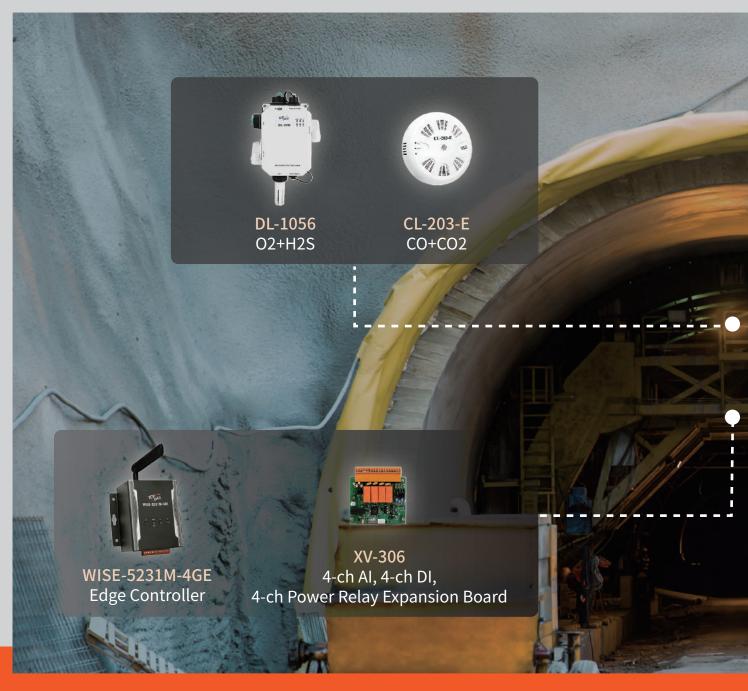
Energy Management Solutions

ICP DAS provides WISE-5231M-4GE Edge Controller for IoT-enabled control and data transmission. PMC-5231 Power Meter Concentrator is deployed to process the energy data measured by PM-3133-MTCP Power Meter. The data is then sent to IoTstar - IIoT Cloud Management Software for field device management, data aggregation and visualization. Besides, IoTstar supports customizable cloud-based dashboards catering to specific applications.





Solutions & Case Studies



Harmful Gas Warning & Access Control in Construction Sites of Tunnel Projects

Tunneling involves risks such as ground collapse and harmful gas exposure, the primary safety concerns for construction workers. For example, high gas concentrations can render workers unconscious. Therefore, IoT technology is deployed to prevent such accidents. Industrial IoT Intelligent LED Display indicates gas concentration detected on-site for risk management and headcount.



This case study involves "Data Visualization of Air Quality" and "Access Control" solutions. WISE-5231M-4GE Edge Controller controls signals and transmits data. DL/CL series Air Box Modules measure gas concentrations (CO, CO2, O2, H2S, SO2) in tunnels.

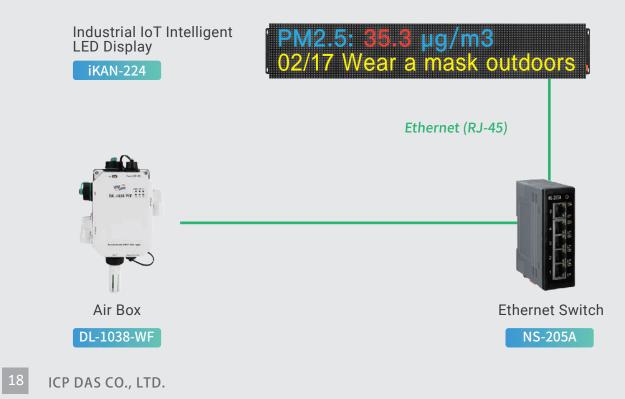
At the entry point, ACS Proximity Card Reader manages headcount and access control, while a dual-row iKAN series LED display shows current headcount and air quality data. Once readings exceed threshold values, Piezo Transducer Alarm Siren will raise the alarm on-site. Meanwhile, WISE Edge Controller sends alarm notifications to mobile devices, enhancing management efficiency.

Air Quality Monitoring Solution Applied in Meeting Rooms



iKAN series LED display can connect to a local area network to show real-time air quality data and meeting information. Besides, iKAN series can directly connect to DL/CL series Air Box Modules, displaying detected readings without additional settings.

Air Quality Index (AQI)	Good	Moderate	Unhealthy for sensitive groups	Unhealthy for all	Very unhealthy	Dangerous
PM2.5(µg/m3) 24-hour Average	0.0-15.4	15.5-35.4	35.5-54.4	54.5-150.4	150.5-250.4	250.5-350.4

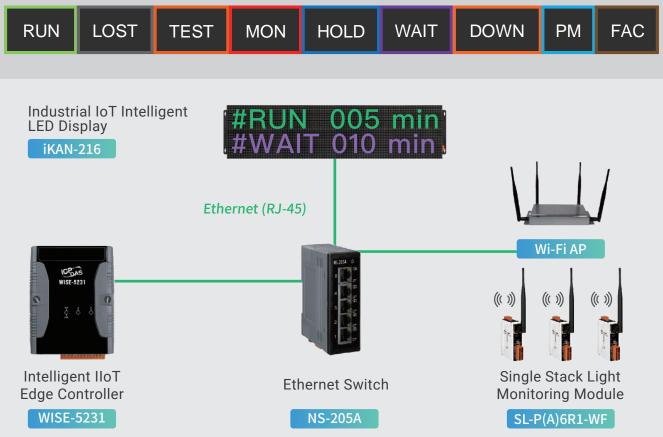




Stack Light Monitoring with Wireless Solutions

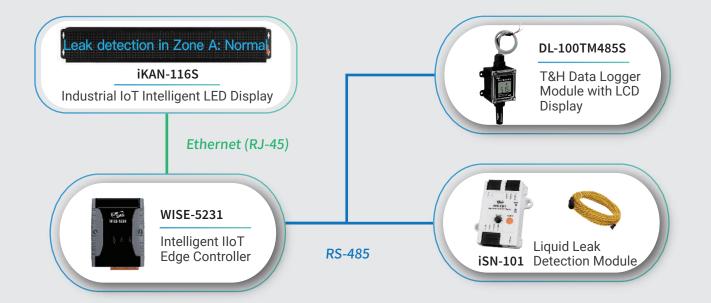
iKAN series LED display can integrate easily with PLC in manufacturing execution systems. It allows real-time display of stack light status, ambient temperature & humidity, and air quality to enhance capacity utilization.

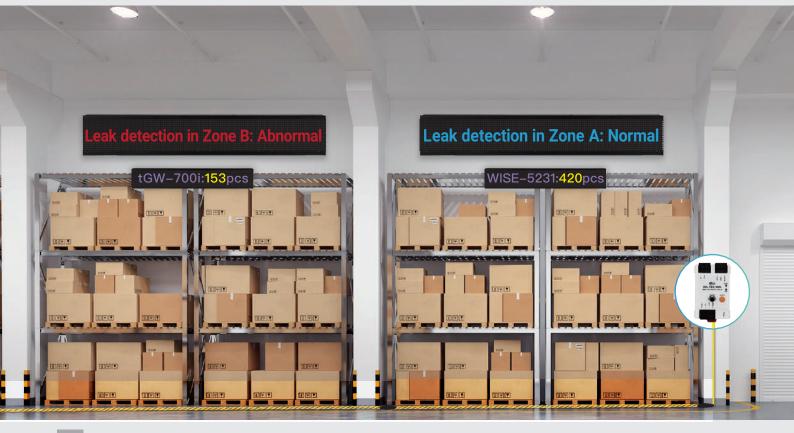
> Machine Utilization= Run Time/On Time KPI=(RUN+LOST+TEST) Time/On Time





Environmental Monitoring in Raw Material Warehouse - Warning Display in Public Spaces

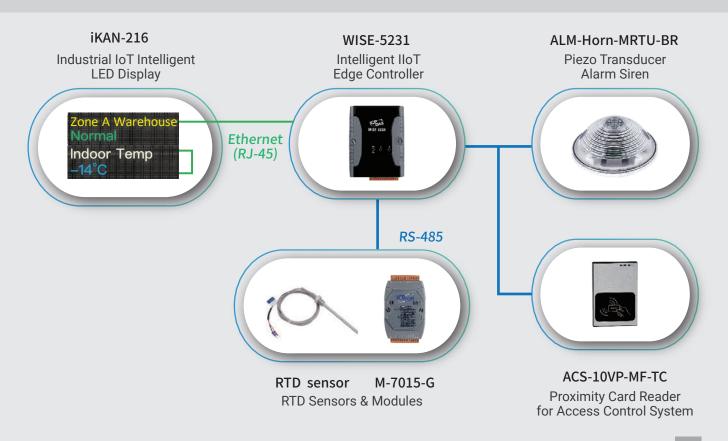






Temperature Monitoring Solution for Cold Storage & Biotech Raw Material Storage

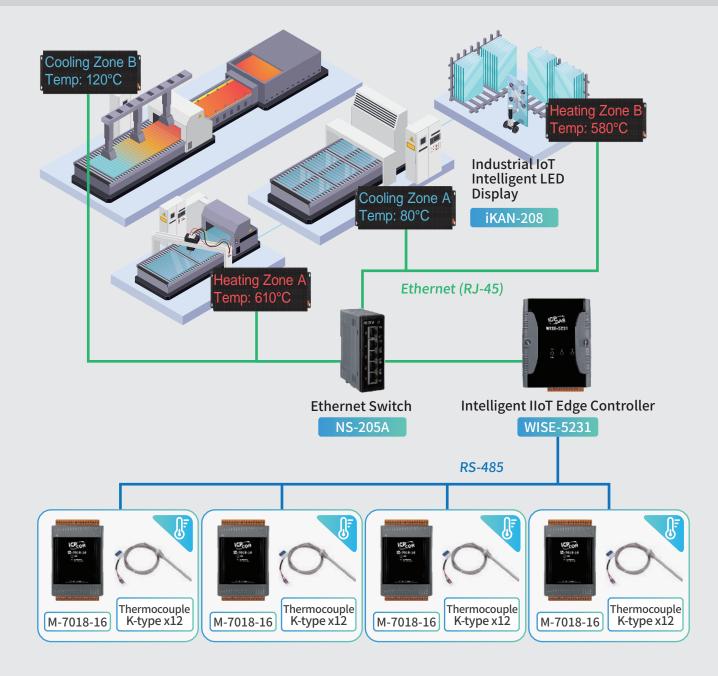
RTD sensors measure low temperatures, and are suited for deployment in cold storage warehouses and biotech raw material storage rooms. Through system integration, iKAN series LED display installed outside the storage rooms show measured temperatures. ALM-Horn Alarm Siren is activated by temperature anomalies. Proximity Card Reader enables access control and headcount display on the iKAN.





Temperature Monitoring Solution for Tempered Glass Production

Tempered glass is produced by thermal treatments, exhibiting high strength. During manufacturing, the glass is conveyed by a roller table for heating and shaping. The glass is then cooled rapidly using jets of air. Hence, temperature monitoring at each stage is crucial.

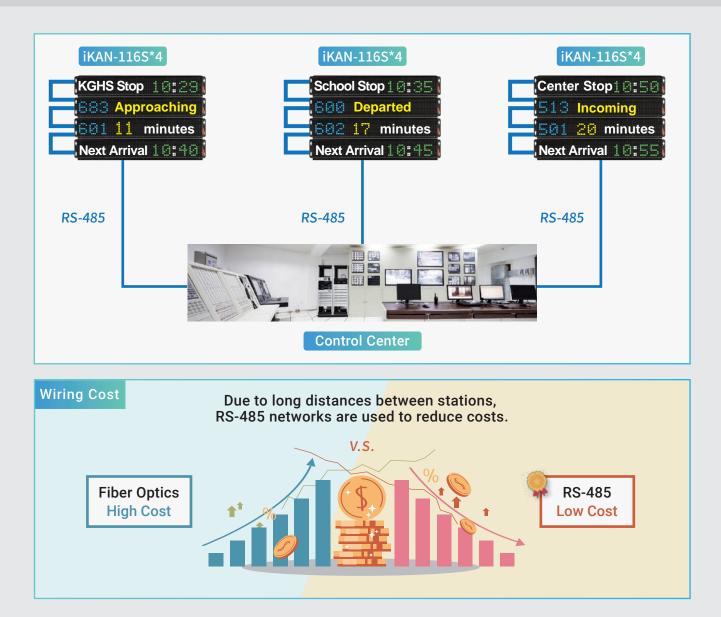


LED Display for Shuttle Bus Transportation at T.S. Dream Mall



T.S. Dream Mall has 6 shuttle bus stations due to its vast park size. At each station, 4 iKAN-116S LED Display are installed and positioned parallel to one another. To avoid the high cost of fiber-optic cables, RS-485 networks are chosen for connecting to the control center. Messages in different fonts and colors are displayed on iKAN-116S using Modbus RTU, showing information such as time, location, and bus numbers at each station.

iKAN series LED display supports Unicode and ASCII characters, enabling configuring a particular parameter individually. Important information can be highlighted using a different font or color.



Solutions & Case Studies

Tailored Production Line for Aluminum Wheel Manufacturing

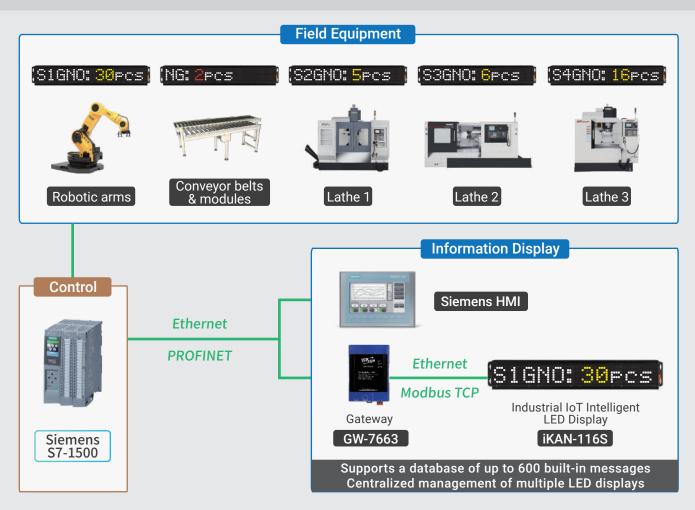
S16N0: 30pcs

ΝG

pre

Production Line KPI Display

The factory in India, with extensive floors, adopts robotic arms and Siemens PLC for aluminum wheel manufacturing. At first, the production line KPIs were planned to be shown on Siemens HMI. However, the HMI screens are too small, and thus the client chose a proactive reporting system instead. The system integrates ICP DAS GW-7663 PROFINET to Modbus TCP Gateway for communication between the Siemens PLC and ICP DAS iKAN-116S LED Display. iKAN-116S showing KPIs such as production capacity and status, machine failures, etc., keeps personnel and engineers posted. Besides, the client activates iKAN' s Watchdog Timer function. Once disconnection between the PLC and iKAN is detected, warning messages are shown on iKAN screens to prevent misinterpretation of information and improve production efficiency.

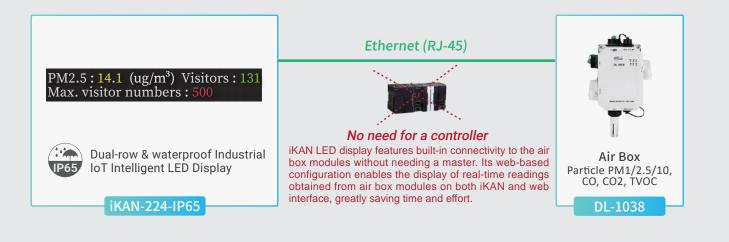


Solutions & Case Studies

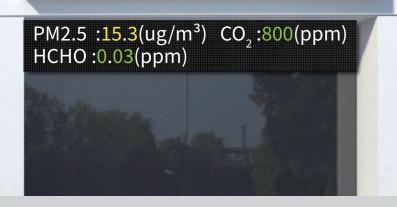


Malls and Public Places

Air Quality Data Display



Applications: Colleges and universities, libraries, medical institutions, malls, stations, etc.



The COVID-19 outbreaks lead to increasing public safety awareness and formulation of relevant regulations. Hence, information such as visitor numbers, room capacity, and indoor air quality data (CO, CO2, HCHO, and PM1/2.5/10) are displayed at specific public places. iKAN series LED display meets the demands by showing scrolling messages and connecting to DL-1000 series Air Box Modules, enabling real-time monitoring of indoor air quality and ensuring compliance with safety standards.

Note: According to Article 5 of the Indoor Air Quality Management Regulations set by the Environmental Protection Administration of the Taiwan Government, indoor areas with a size less than or equal to 2,000 square meters require a minimum of 5 inspection points for air quality, i.e., at least 5 air quality sensors need to be installed.



Sun-Link-Sea Vacation Resorts

Air Quality Data Display, Interactive Web Interface

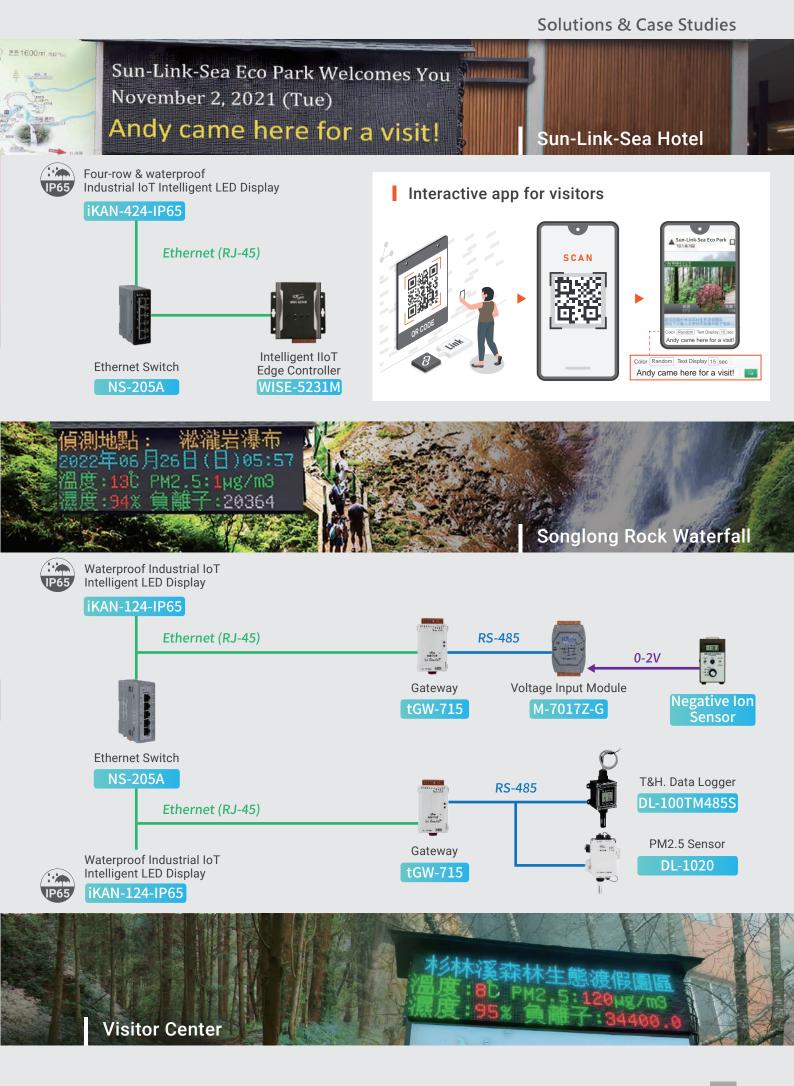
In a post-COVID world, domestic travel in Taiwan has been strong, with visitors flocking to tourist attractions across the island.

In this case, the client deploys iKAN series LED displays to show environmental data detected parkwide. Integration with M-7017Z-G Analog Input Module with High Voltage Protection to process data obtained from negative ion concentration sensors and other environmental monitoring sensors. This setup prevents the discharge of static electricity to the connected modules at the back end.

Since the entire park uses Ethernet networks, tGW-715 gateway is employed to convert the RS-485 interface of M-7017Z into an Ethernet interface for data transmission. The system integrates with WISE-5231 IIoT Edge Controller to configure message display according to the preset logic rules. In this way, visitors can view data on air quality, negative ion concentrations, temperature & humidity at a glance. Moreover, iKAN features a new function - RESTful API which uses JSON to configure the parameters of the LED display. This allows for tailored landing page designs and interactive elements.

ICP DAS Products for Environmental Monitoring

Environmental M	Ionitoring Modules	Air Quality Monitoring 1	E&H. Monitoring Gas Monitoring
June John John John John John John John John			EXECULARIZES 2023
DL-10 series	DL-100 series	DL-300 series	DLW-1000 series
 Magnetic Mount T&H. Server Room Monitoring 	 LCD Display T&H. / Dew Point IP66 Protection Use in Harsh Environments 	 LCD Color Touch Screen T&H. / Illuminance Measures CO/CO₂/ HCHO Concentration Use in Indoor Environment Monitoring 	 Mini Weather Station with IP54 Ventilation Fan Design Wind Speed & Direction / T&H. / Rainfall / Illuminance / Atm. / PM2.5



27

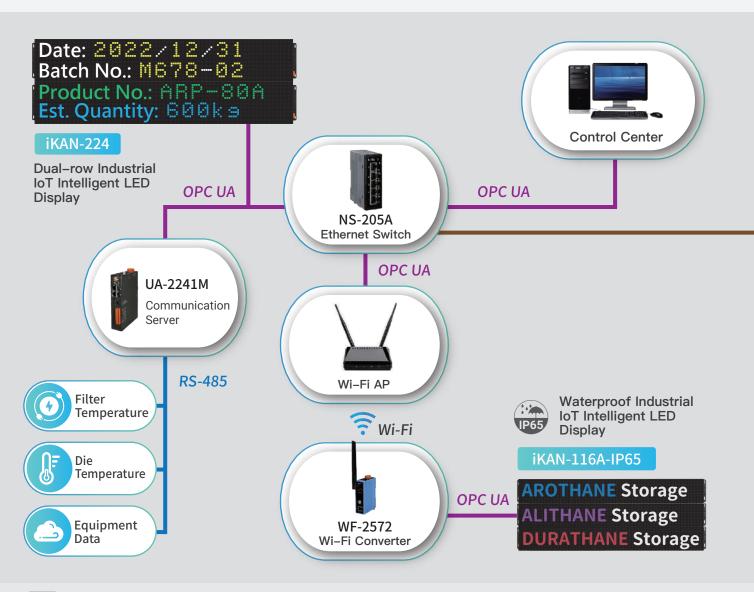


Medical-Grade Thermoplastic Polyurethane (TPU) Manufacturing

Manufacturing Data Display

ICP DAS - BMP, a medical-grade TPU manufacturer, adjusts various parameters according to the formulations. The data displayed on HMI devices is small and hard to read across the plant. Thus, iKAN-224 dual-row LED display comes in useful by showing manufacturing KPIs and scrolling alert messages in each row.

The entire factory floor uses OPC UA architecture for data collection and transmission. UA-2241M IIoT Communication Server is deployed to process data from the RS-485 devices (Modbus RTU). Subsequently, the data is transmitted through an unmanaged ethernet switch. iKAN-224 then displays the data, enhancing accessibility and readability of KPIs on site.



Advantages of Using OPC UA in Medical-Grade TPU Production Lines

I/O data collected can be directly imported into log files and a remote database



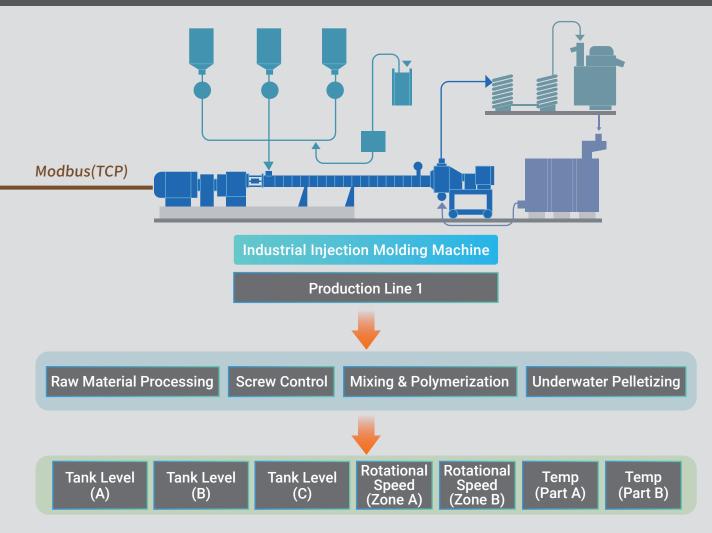
- Built-in OPC UA Server service
- Support MQTT Broker/Client service
- Provide proactive data transmission

Support Ethernet and Serial communication modules



- **Support** authentication
- Support data encryption
- Support cloud-based logic control, IFTTT, and APP notifications

Automated Data Collection in Smart Factory

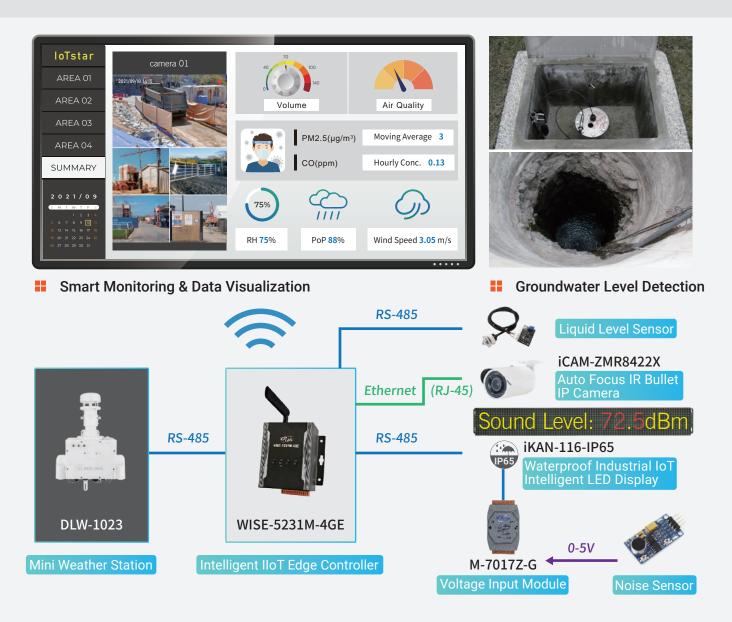






Construction Noise & Level Monitoring Solution

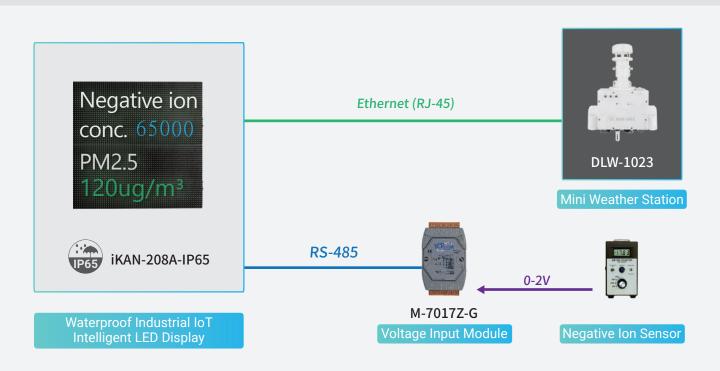
Construction noise levels vary between stages, with sources coming from different machinery and activities. In this case, DLW-1023 Mini Weather Station, CCTV, and real-time noise monitoring equipment are installed at the entry point and exit of the construction site. iKAN LED display shows data on noise, liquid level, air quality, wind direction, rainfall, etc., in real time. Besides, the data is uploaded to the cloud through WISE-5231M-4GE. Using IoTstar- IIoT Cloud Management Software, a customized monitoring dashboard can be created, and real-time notifications can be sent to the right personnel via the LINE app.





Hotel Environment Air Quality Monitoring Solution

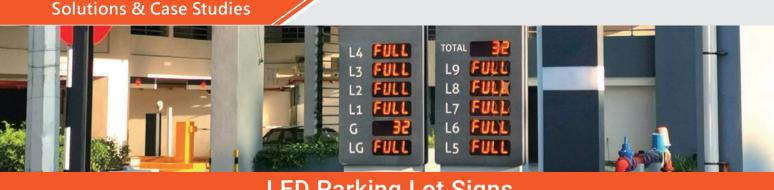
Public awareness of environmental safety has increased with the global outbreak of COVID-19. This is evident in visitors now paying more attention to the air quality of crowded places such as resorts. ICP DAS DLW-1XXX Mini Weather Station monitors meteorological conditions and air quality data, including temperature, humidity, CO, CO2, HCHO, negative ion conc., PM1/2.5/10, etc. Integration with WISE-5231M-4GE Edge Controller and iKAN LED display allows data display on the LED board, making management tasks easier and the environment safer.



Hotel Environment Air Quality Monitoring Solution:

- Sensor data visualization
- Vertical integration and easy expansion
- Direct connections between sensors and Industrial IoT LED Display, presenting measured values

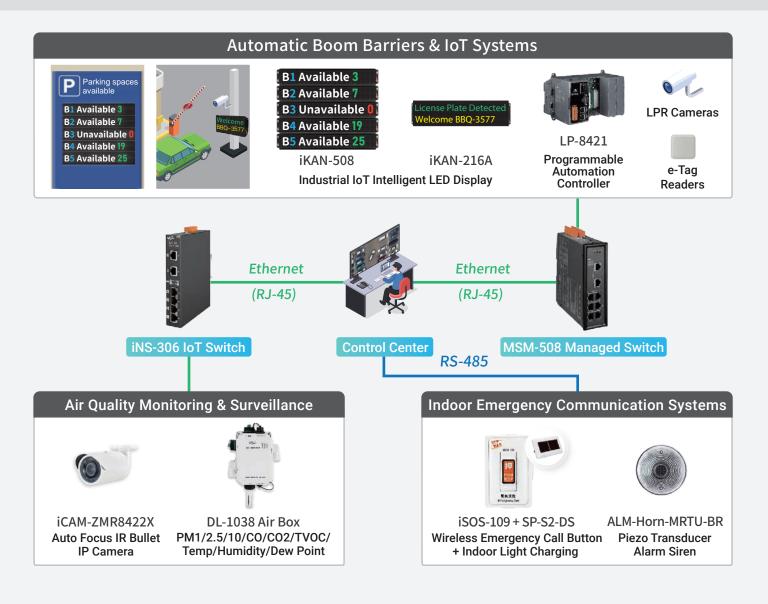
The waterfall design of the swimming pool creates height difference, generating huge amounts of negative ions through air friction when water splashes collide with rocks. This allows visitors to enjoy the fresh air in the hotel. In this project, negative ion sensors and DLW Mini Weather Stations are installed to collect air quality data, and the use of the iKAN LED display visualizes measured values for visitors.



LED Parking Lot Signs

Parking operators are now introducing IoT-enabled devices and automated parking systems to reduce the need for human resources. Applications include access control, display of directions and spaces available for each level, emergency communication systems, and equipment monitoring.

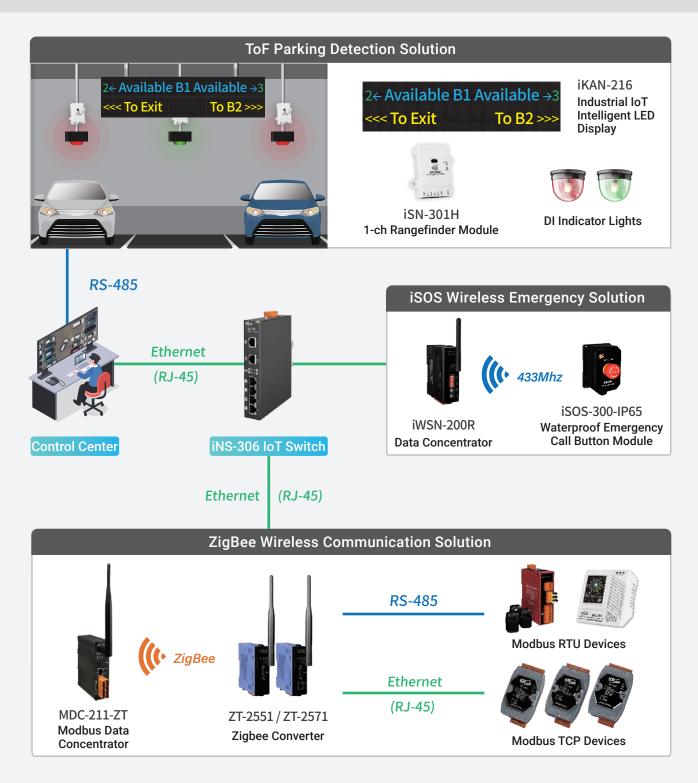
- IoT Switch provides IoT devices with a schedule management function. For example, power on/off scheduling, IP address access management, etc.
- **IKAN LED display offers the functions of scheduled messages based on triggers, real-time display** of messages, and easy configuration via a web-based interface.
- ICP DAS provides a variety of PACs with built-in operating systems such as Windows, WinCE, and Linux for development.
- IoT devices offer a high degree of integration capabilities. For example, ToF parking detection modules, multilingual voice alert devices, high-brightness buzzers, air boxes, etc.



iKAN x ZigBee Wireless Solution – Real-time Display of Parking Spaces Available

The solution saves wiring effort across the parking lots. ICP DAS Zigbee series - Modbus High-speed Data Concentrator processes Modbus messages collected by each group of modules.

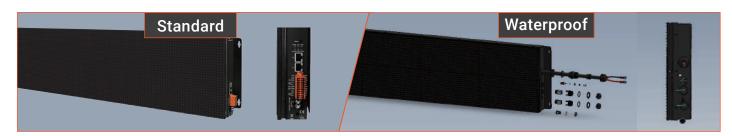
MDC-211-ZT ZigBee Modbus Data Concentrator works with ZT-2XXX series modules, connecting Modbus RTU devices and ZigBee I/O modules widely dispersed across parking lots to the Ethernet through simple configuration. This solution enables users to build a remote monitoring system quickly.

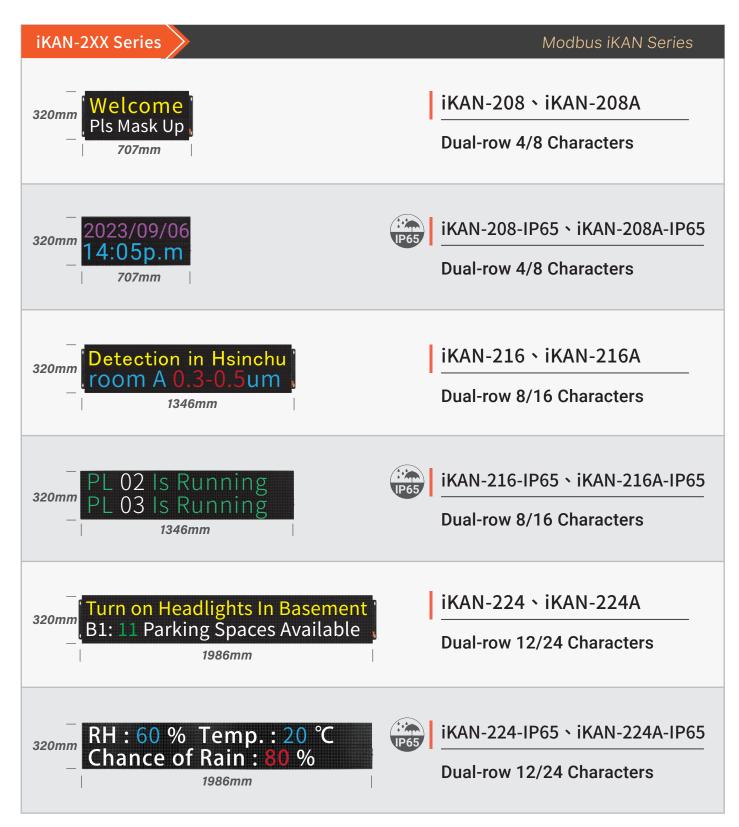


ICP DAS offers industries a holistic range of the iKAN series – Industrial IoT Intelligent LED Display – in different sizes. The design combines ruggedness, easy installation, and the optional IP65 protective casing for outdoor applications. The series ensures smooth data display and improves operational efficiency.

iKAN-1XX Series	Modbus iKAN Series
115mm PL In Operation 834mm	iKAN-116S Single-row 8/16 Characters
115mm Air Quality: Moderate	iKAN-124S Single-row 12/24 Characters
160mm PL1: Material SHTG 1346mm	iKAN-116 \ iKAN-116A Single-row 8/16 Characters
160mm Bus 1006 Is Incoming 1347mm	iKAN-116-IP65 \ iKAN-116A-IP65 Single-row 8/16 Characters
160mm Leak detection in 5F: Abnormal	iKAN-124 、iKAN-124A Single-row 12/24 Characters
160mm BMP's Medical Grade TPU. 1987mm	iKAN-124-IP65 \ iKAN-124A-IP65 Single-row 12/24 Characters

Communication Interface





ICP DAS offers industries a holistic range of the iKAN series – Industrial IoT Intelligent LED Display – in different sizes. The design combines ruggedness, easy installation, and the optional IP65 protective casing for outdoor applications. The series ensures smooth data display and improves operational efficiency.

iKAN Special Model	Modbus iKAN Series
115mm Air Quality: Moderate R1 1218mm 1218mm iKAN-124S-WF Single-row 12/24 Characters	128mm [CP DAS Cloud IoT Monitoring] Holistic Industrial LED Display 642mm iKAN-224t Dual-row 12/24 Characters
800mm 20221208 River Stop Bus Incoming In 4 Min. Next In 9Min. 709mm	iKAN-508A-IP65 Five-row 4/8 Characters
^{640mm} Sun-Link-Sea Vacation Resorts Temp : 18 °C PM2.5 : 120 ug/m ³ RH : 81 % Negative Ions : 34400. Current Visitor No. In Total:1,220	0 R3 Four-row 12/24 Characters
320mm Access Control Anomaly Water Leak Anomaly In I	

Model Name





1:1 Row 2: 2 Rows

Row



48: 48 CHR



RoHS

A: N.A. Null: Compliant



Protocol

Null: Modbus PFB: Modbus + PROFIBUS PFN: Modbus + PROFINET CPS: Modbus + CANopen WF: Modbus + Wi-Fi

Board Size

Small (S Series)

Tiny (t Series)

12 A N I

Standard

Waterproof

Null: N.A IP65: IP65

16cm

9.6cm

4.8cm

LED Light Brightness

	A Series	Standard Series	S Series	t Series	
Pixel Pitch (mm)	10	10 6		3	
Brightness (cd/m2)	Max. 4200	Max. 3400 Max. 2100		Max. 5000	
Scan Mode	1/4 Scan	1/8 Scan			
Power Input	DC 5V	100~240 VAC			
RoHS	No	Yes			

Modbus iKAN Display (RoHS Compliant)

MOODUS IKAN	uspia		Modbus IKAN	Series			
			Mechanica	l Data		Communication In	iterface
Model	Row	Character	Board Size	Dimensions (mm) (W x H x D)	Weight	Ethernet	COM Ports
iKAN-116	1	16	Standard	1346x160x49	4 Kg		
iKAN-116S	1	16	Small	834x115x37.5	2 Kg		
iKAN-124	1	24	Standard	1986x160x49	4.6 Kg		
iKAN-124S	1	24	Small	1218x115x37.5	2.5 Kg		RS-485 x2
iKAN-208	2	8	Standard	707x320x50	4 Kg		
iKAN-216	2	16	Standard	1346x320x49	8 Kg		
iKAN-224	2	24	Standard	1986x320x49	12 Kg	2 x RJ-45,	
iKAN-116-IP65	1	16	Standard	1346x160x49	4 Kg	10/100 Base-TX	
iKAN-124-IP65	1	24	Standard	1986x160x49	4.6 Kg		
iKAN-208-IP65	2	8	Standard	707x320x50	4 Kg		
iKAN-216-IP65	2	16	Standard	1346x320x49	8 Kg		
iKAN-224-IP65	2	24	Standard	1986x320x49	12 Kg		

Modbus iKAN Display (Non RoHS Compliant) Modbus iKAN Series										
		,	Mechanica	l Data		Communication I	nterface			
Model	Row	Character	Board Size	Dimensions (mm) (W x H x D)	Weight	Ethernet	COM Ports			
iKAN-116A	1	16	Standard	1346x160x49	4 Kg					
iKAN-124A	1	24	Standard	1986x160x49	4.6 Kg					
iKAN-208A	2	8	Standard	707x320x50	4 Kg					
iKAN-216A	2	16	Standard	1346x320x49	8 Kg	Modbus TCP Slave				
iKAN-224A	2	24	Standard	1986x320x49	12 Kg	Max. 8 connections Web-based operation interface				
iKAN-116A-IP65	1	16	Standard	1346x160x49	4 Kg	2 x RJ-45,	RS-485 x2			
iKAN-124A-IP65	1	24	Standard	1986x160x49	4.6 Kg	10/100 Base-TX				
iKAN-208A-IP65	2	8	Standard	707x320x50	4 Kg					
iKAN-216A-IP65	2	16	Standard	1346x320x49	8 Kg					
iKAN-224A-IP65	2	24	Standard	1986x320x49	12 Kg					
iKAN-224t	2	24	Tiny	642x128x62	2.1 Kg					
iKAN-248A-IP65	2	48	Standard	3908x320x81	27 Kg					
iKAN-424A-IP65	4	24	Standard	1988x640x81	27 Kg					
iKAN-508A-IP65	5	8	Standard	709x800x81	10 Kg					

PROFIBUS iKAN Display (Call Sales) PROFIBUS iKAN Series										
			Mechani	Communication Interface						
Model	Row	Character	Board Size	Dimensions (mm) (W x H x D)	Weight	Ethernet	COM Ports			
iKAN-116-PFB	1	16	Standard	1347x160x73	4 Kg	Modbus TCP Slave				
iKAN-116S-PFB	1	16	Small	834x130x54	2 Kg	Max. 8 connections Web-based operation interface				
iKAN-124-PFB	1	24	Standard	1987x160x73	4.6 Kg	1 x RJ-45, 10/100	RS-485 x1			
iKAN-124S-PFB	1	24	Small	1218x130x54	2.5 Kg	Base-TX	PROFIBUS x1			
iKAN-116-PFB-IP65	1	16	Standard	1346x160x49	4 Kg	Modbus TCP Slave Max. 8 connections Web-based operation interface				
iKAN-124-PFB-IP65	1	24	Standard	1986x160x49	4.6 Kg	2 x RJ-45, 10/100 Base-TX				
Baud Rate: 9.	6 k, 19	9.2 k, 45.45	k, 93.75 k,	187.5 k, 500 k, 1.5 N	И, З М, 6	M, 12 Mbps ; Protocol:	DP-V0			

CANopen iKAN Display (Call Sales) CANopen iKAN Series										
			Mechani	Communication Interface						
Model	Row	Character	Board Size	Dimensions (mm) (W x H x D)	Weight	Ethernet	COM Ports			
iKAN-116-CPS	1	16	Standard	1346x160x49	4 Kg		RS-485 x1 CAN x1			
iKAN-116S-CPS	1	16	Small	834x115x37	2 Kg	Modbus TCP Slave Max. 8 connections Web-based operation interface 2 x RJ-45, 10/100 Base-TX				
iKAN-124-CPS	1	24	Standard	1986x160x49	4.6 Kg					
iKAN-124S-CPS	1	24	Small	1218x115x37	2.5 Kg					
iKAN-116-CPS-IP65	1	16	Standard	1346x160x49	4 Kg					
iKAN-124-CPS-IP65	1	24	Standard	1986x160x49	4.6 Kg					
Baud Rate: 10 k, 20) k, 50	k, 125 k, 25	50 k, 500 k, 8	300 k, 1 Mbps; Prot	ocol: CAN	lopen DS-301 ver4.02, D	S-401 ver2.1			



Energy Management Solution

- InduSoft SCADA
- Power Meter Concentrator
- IIoT PMC with Display
- Three-phase Smart Power Meter
- Single-phase Smart Power Meter Multi-circuit Smart Power Meter
- True RMS Input Module
- Smart Power Meter with LED
- Display



IIoT Product

- IoT Cloud Management Software (IoTstar)
- IoT Intelligent Edge Controller (WISE-5231 Series)
- IP Camera (iCAM Series)
- IoT Communication Server (UA-5200) Series)
- MQTT I/O Module (MQ-7200 Series)
- Stack Light Monitoring Module (tSL Series)



ZigBee Wireless Product Solutions

- Introduction to Wireless Networks
- Applications
- ZigBee Converter
- ZigBee Repeater
- ZigBee I/O Group Module
- ZigBee I/O Group
- ZigBee Modbus Data Concentrator



UA Series / BRK Series: IIoT Cloud Solution

- IIoT Communication Server : **UA Series**
- Features and Architecture
- Automation Solutions
- UA I/O Module : U-7000 Series
- IIoT MQTT Broker : BRK Series
- Application of BRK-2841M



WISE - Intelligent IIoT Edge Controller & I/O Module

- WISE IIoT Edge Controller I/O Module
- IIoT Cloud Management Software
- Applications
- Product Specification
- Intelligent Surveillance Solution Integrated Solution Using Mobile
- Devices Device Monitoring Solution: ExoSense



Smart Building, Smart Home Automation

- Video Intercom & Access Control
- Touch HMI TouchPAD Series
- Smart Lighting Control
- Energy Saving PM/PMC Series
 Environmental DL/CL Series
- Motion Detector PIR Series Wi-Fi Wireless - WF Series
- Infrared Wireless IR Series
- ZigBee Wireless ZT Series
- IIoT Server & Concentrator
- LED Display iKAN Series
- Data Server iDaSer Series



Industrial Panel PC Industrial Panel Controlle

- Win-GRAF/eLogger
- AVEVA Edge
- iPPC Industrial Panel PC
- ViewPAC Industrial Panel Controller
- AVEVA ViewPAC SCADA Panel Controller
- Industrial I/O Module
- SmartView Multifunctional HMI



PC-based I/O Boards

- PCI Express Bus Data Acquisition **Boards**
- PCI Bus Data Acquisition Boards
- ISA Bus Data Acquisition Boards
- Special Function Boards
- Daughter Boards and Accessories



ICP DAS CO., LTD. Taiwan (Headquarters) **L** +886-3-597-3366



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