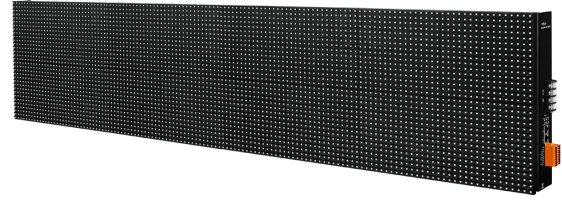


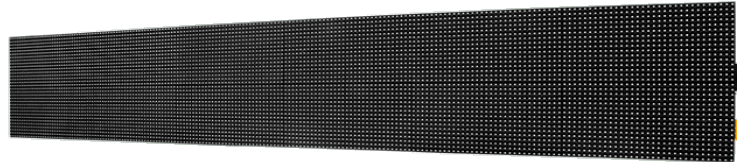
Double-row, 8/4-Character/Row Industrial LED Display with Modbus protocol

iKAN-208A



Double-row, 16/8-Character/Row Industrial LED Display with Modbus protocol

iKAN-216A



Double-row, 24/12-Character/Row Industrial LED Display with Modbus protocol

iKAN-224A

Features

- Web-based User Interface
- 7 colors with a text height of 16 cm
- Can store up to 128 common messages, and priorities can be set
- Integrates both text and variables (up to 168) within a single message
- Can be controlled remotely via PLC, PC, or smartphone
- Supports Modbus TCP Slave and Modbus RTU Slave protocols
- Directly connects to DL/CL series sensor modules and displays real-time monitoring data
- Built-in RTC (Real Time Clock)
- Supports multiple languages
(For complex characters such as Thai, Hindi or Arabic, please contact our sales team.)



Introduction

The iKAN series is a family of industrial LED message display devices designed to deliver high levels of anti-noise performance, reliability, and stability. These displays support both ASCII and Unicode characters, allowing messages to be shown in multiple languages.

The iKAN series supports the widely used Modbus industrial protocol, making it easy to integrate with existing PLC and SCADA systems. Data from a PC or PLC can be sent and displayed as formatted messages in real time. The displays support seven text colors, which can be used to represent different levels of message importance and greatly enhance readability in industrial environments.

Messages can be edited using a standard web browser, mobile device, or smartphone. This eliminates the need for any proprietary control software or tools.

With the ability to display real-time data, the iKAN series is well-suited for a wide range of indoor or semi-outdoor applications, including shopping malls, railway stations, and industrial facilities.

Smart Control with a Smartphone

The iKAN display allows you to edit messages and control the display using your smartphone.

This is very useful when you need to quickly and efficiently display an emergency message to a large number of readers.



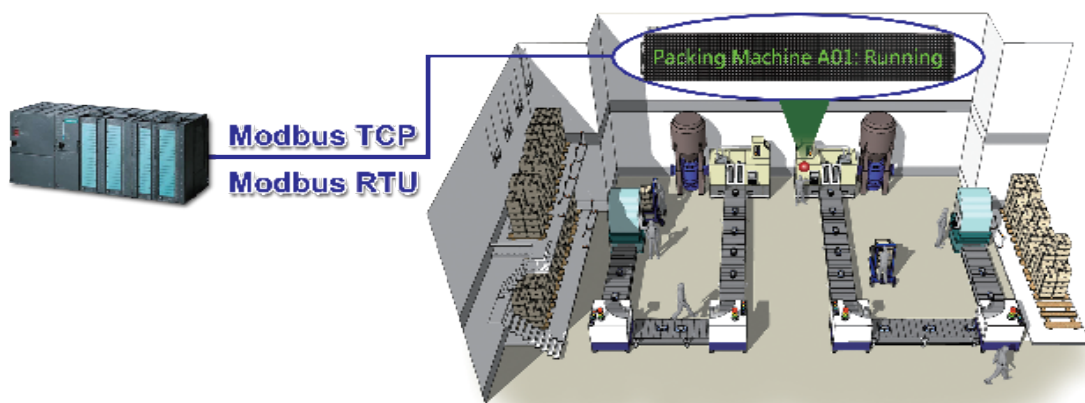
Message Priority

Messages with instant priority have a higher priority than other messages. Once a message with instant priority is enabled, the common message currently being displayed will be suspended until the instant message is disabled. This feature allows the most important information to be displayed in an emergency situation.

Applications

PLC HMI

Each model in the iKAN series provides storage space for up to 128 messages with priority configuration, and 168 variables to allow data written from a PLC to be displayed in a formatted message in real-time. Furthermore, Modbus commands can be sent from the PLC to display a message or hide it, or to transfer ASCII string to be displayed on the iKAN.



Indoor Air Quality Display

The iKAN device can be used to display indoor air quality indexes from ICP DAS DL sensor modules, including details of the CO, CO₂, and PM_{2.5} levels, the temperature, and the humidity, without requiring any programming skills or knowledge.

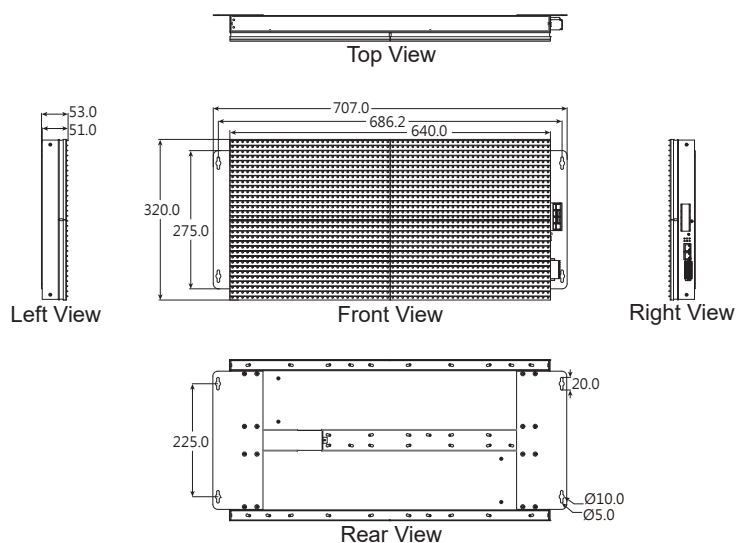


Specifications

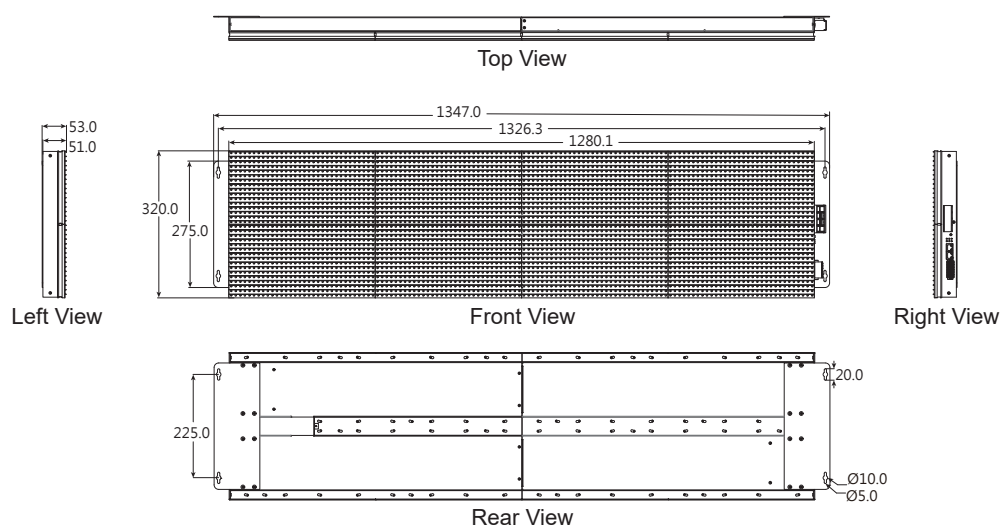
Model	iKAN-208A	iKAN-216A	iKAN-224A
Display			
Text Color	Red, Blue, Yellow, Green, Light Blue, Purple or White		
Character Sets	16 x 16 Unicode or 8 x 16 ASCII		
DisplayRow	2	2	2
Display ASCII Characters (per Row)	8	16	24
Display Unicode Characters (per Row)	4	8	12
Message Pool	128 common messages with user-defined priority levels, Up to 20 Unicode characters or 50 ASCII characters each * For complex characters such as Thai, Hindi or Arabic, please contact our sales team.		
Data Pool	40 Coil values, 64 Float values, and 64 Integer values		
RTC (Real-time Clock)	Date and time, 24 hour format including second, minute, hour, date, day of the week, month, year		
Ethernet			
Port	2 × RJ-45, 10/100 Base-TX, Switch Ports		
Protocol	8x Modbus TCP Master, 8x Modbus TCP Slave, GCI and HTTP		
Configuration	Web-based User Interface		
COM Port			
Port	2 × RS-485		
Protocol	Modbus RTU Master/Slave		
Baudrate (bps)	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200		
Data Format	N81, E81, O81		
Power			
Input Range	DC 5V		
Consumption	Typical (Normal Display): 6 A @ DC 5 V (30 W)	Typical (Normal Display): 12 A @ DC 5 V (60 W)	Typical (Normal Display): 18 A @ DC 5 V (90 W)
	Max. (Full Brightness): 20 A @ DC 5 V (100 W)	Max. (Full Brightness): 40 A @ DC 5 V (200 W)	Max. (Full Brightness): 60 A @ DC 5 V (300 W)
	* Actual current consumption depends on display content and brightness settings.		
Mechanical			
Dimensions (W × L × H)	(707 × 320 × 53)mm	(1347 × 320 × 53)mm	(1987 × 320 × 53)mm
Weight	4 Kg	8 Kg	12 Kg
Installation	Wall mounting		
Housing Material	Aluminum		
Environment			
Operating Temperature	0 ~ +60° C		
Storage Temperature	-10 ~ +75° C		
Humidity	10 ~ 90% RH, Non-condensing		

■ Dimensions (Units: mm)

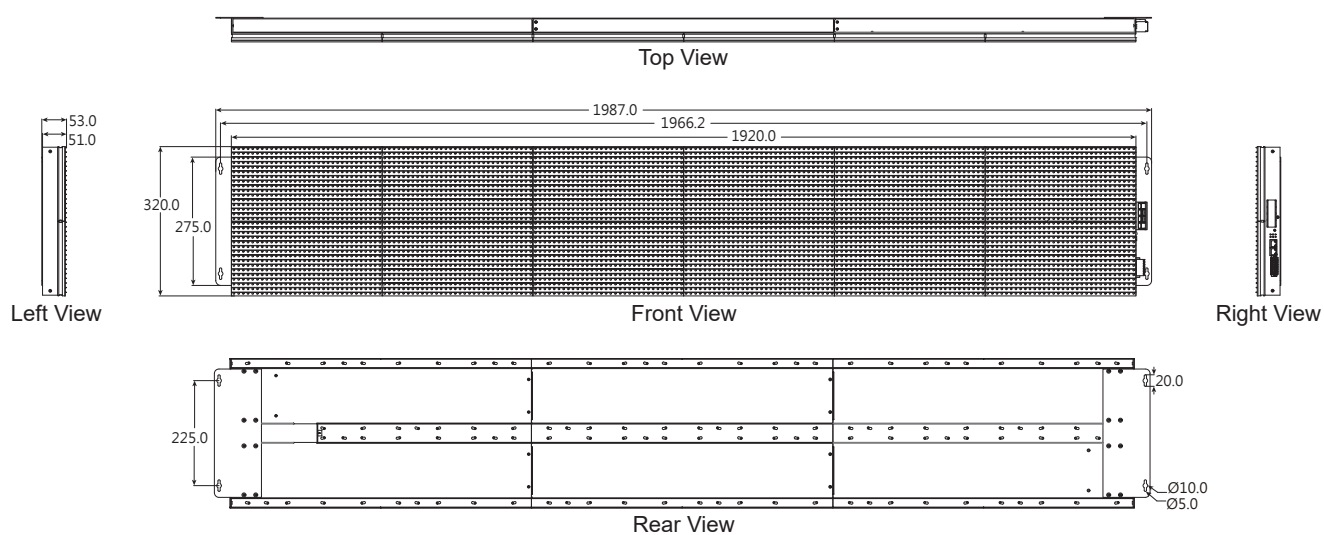
iKAN-208A



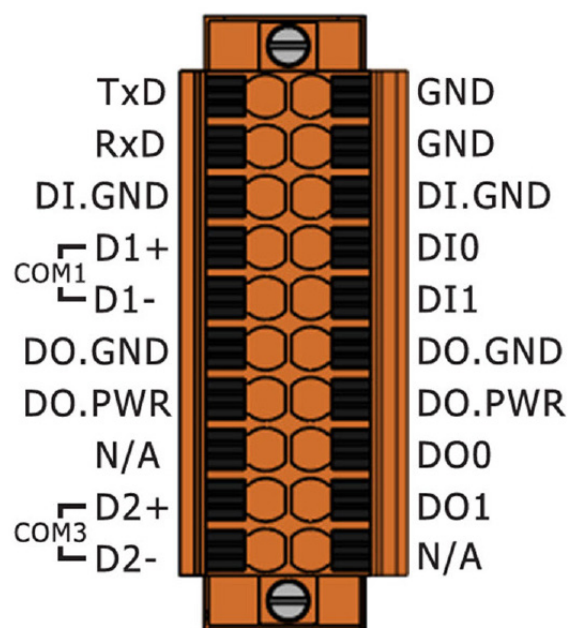
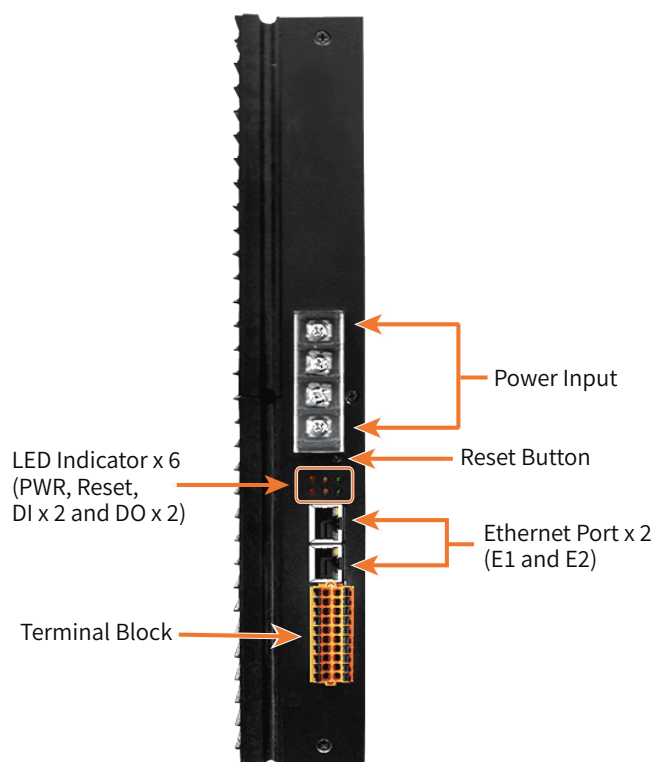
iKAN-216A



iKAN-224A



Appearance



COM Port	
COM1: RS-485	D1+ and D1-
COM2: RS-232	TxD, RxD and GND
COM3: RS-485	D2+ and D2-

Digital Input/Digital Output	
Digital Input 1	DI0 and DI.GND
Digital Input 2	DI1 and DI.GND
Digital Output 1	DO.PWR, DO0 and DO.GND
Digital Output 2	DO.PWR, DO1 and DO.GND

Ordering Information

iKAN-208A	Double-row, 8/4-Character/Row Industrial LED Display with Modbus protocol
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iKAN-224A	Double-row, 24/12-Character/Row Industrial LED Display with Modbus protocol