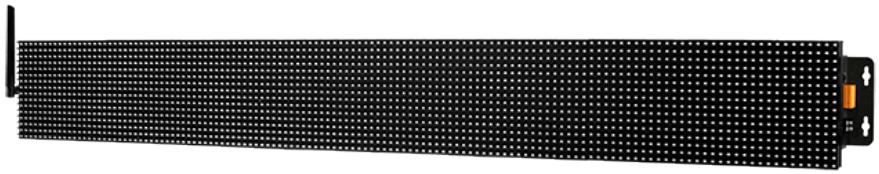
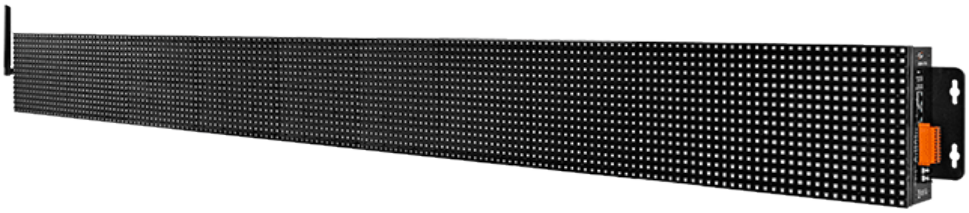


Single-row, 16/8-Character Industrial Wi-Fi LED Display with Modbus protocol (Asia Only)

iKAN-116-WF



Single-row, 24/12-Character Industrial Wi-Fi LED Display with Modbus protocol (Asia Only)

iKAN-124-WF

Features

- Web-based User Interface
- 7 colors with a text height of 16 cm
- Supports multiple languages
- Can store up to 600 common messages, and priorities can be set
- Integrates both text and variables (up to 420) within a single message
- Can be controlled remotely via PLC, PC, or smartphone
- Built-in RTC (Real Time Clock)
- Supports Modbus TCP Slave and Modbus RTU Slave protocols
- Directly connects to DL/CL series sensor modules and displays real-time monitoring data
- ISM Band 2.4/5 GHz
- Full compatible with IEEE 802.11 a/b/g/n
- Support Wi-Fi Limit-AP and Infrastructure mode
- Support WPA-PSK, WPA2-PSK for Wi-Fi encryption

Introduction

The iKAN series is a family of industrial LED display devices that deliver industrial-grade anti-noise capabilities as well as reliability and stability. It is highly suitable for presenting formatted messages in indoor areas using either Unicode characters, which can be used to display multiple languages, or ASCII characters.

The iKAN series support for the popular Modbus industrial protocol is provided meaning that iKAN display devices can be easily integrated into existing PLC and SCADA environments.

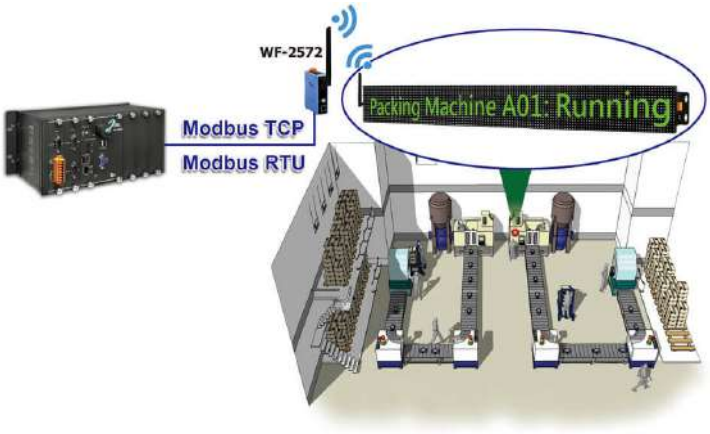
The iKAN series allows data written from a PC or a PLC to be displayed in a formatted message in real-time. Seven colors are available for the text, which can be used to indicate different degrees of importance of the message, as well as significantly increase the readability of the message in an industrial arena. Messages can be edited and enabled/disabled using a standard web browser, such as Google Chrome, Firefox, or Edge, etc., on a PC, mobile device, or smartphone.

Wi-Fi communication eliminates the need for additional network cables, reducing reliance on networks and wiring. This simplifies device installation and wiring complexity, enabling quick device activation while saving time and labor.

Applications

PLC HMI

The iKAN series display provides 600 message storage space and 420 variable space, which can display the real-time data of PLC in text messages. In addition, PLC Modbus commands give iKAN control to show or hide a message, or to send encoded strings to iKAN for display.



Indoor Air Quality Display

The iKAN device can be use to display indoor air quality indexes from ICP DAS DL sensor modules, including details of the CO, CO2, and PM2.5 levels, the temperature, and the humidity, without requiring any programming skills or knowledge.

Dimensions (Units: mm)

iKAN-116-WF

To be provided

iKAN-124-WF

To be provided

System Specifications

Model	iKAN-116-WF	iKAN-124-WF
Display		
Text Color	Red, Blue, Yellow, Green, Light Blue, Purple or White	
Character Sets	8 x 16 ASCII or 16 x 16 Unicode	
Display Row	1	1
Display ASCII Characters (per Row)	16	24
Display Unicode Characters (per Row)	8	12
Message Pool	600 common messages with user-defi ned priority levels, Up to 20 Unicode characters or 50 ASCII characters each	
Data Pool	100 Coil values、128 Float values、128 Integer values and 64 Double values	
RTC (Real-time Clock)	Date and time, 24 hour format including second, minute, hour, date, day of the week, month, year	
Ethernet		
Ports	1 × 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 Ports		
Ports	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	100 ~ 240 VAC	
Consumption	0.5 A @ AC 120 V	0.55 A @ AC 120 V
Mechanical		
Dimensions (W × L × H)	(1347 x 160 x 73)mm	(1987 x 160 x 73)mm
Weight	4 Kg	4.6 Kg
Installation	Wall mounting	
Housing Material	Aluminum	
Environment		
Operating Temperature	0 ~ +60° C	
Storage Temperature	-10 ~ +75° C	
Humidity	10 ~ 90% RH, Non-condensing	

Ordering Information

iKAN-116-WF CR	Single-row, 16/8-Character Industrial Wi-Fi LED Display with Modbus protocol (RoHS) (Asia Only)
iKAN-124-WF CR	Single-row, 24/12-Character Industrial Wi-Fi LED Display with Modbus protocol (RoHS) (Asia Only)