



Making Data Acquisition Easy

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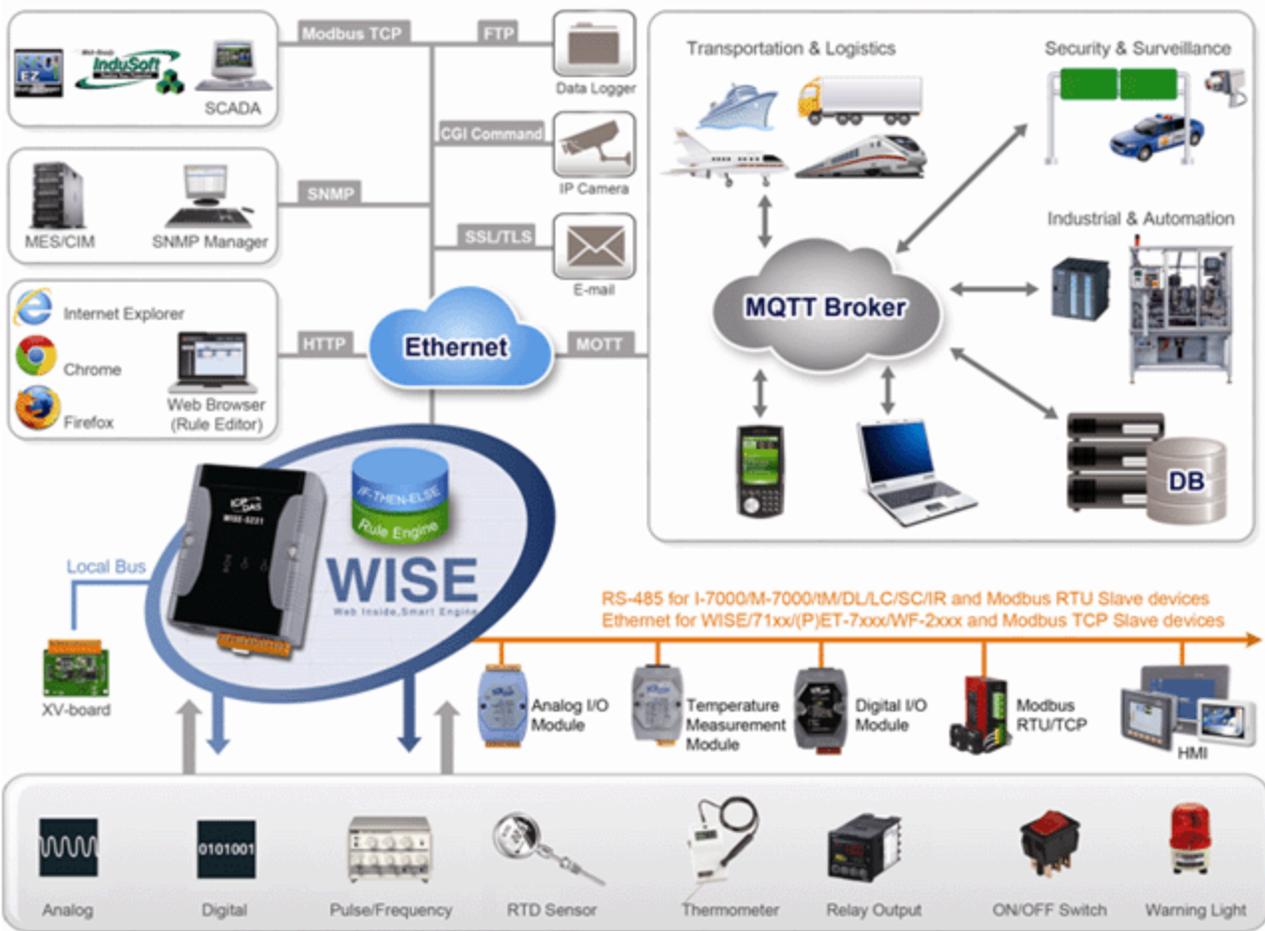
**ICP DAS USA Introduces New IoT Controller WISE-5231**

WISE (Web Inside, Smart Engine) is a product series developed by ICP DAS that works as control units for use in remote logic control and monitoring in various industrial applications. WISE offers a user-friendly and intuitive web site interface that allows users to implement the IF-THEN-ELSE control logic on controllers just a few clicks away; no programming is required. With its powerful and easy-to-use features, it can minimize the learning curve, shorten time to market and dramatically reduce system development costs.

In response to the Internet of Things (IoT) age, ICP DAS released a new smart IoT Controller - WISE-5231. WISE-5231 provides more support in I/O functions; it allows connection to XV-board, remote I/O modules and Modbus TCP/RTU Slave modules at the same time. Besides the flexibility in I/O module integration, WISE-5231 also offers data logger function to record the I/O channel data by periodic cycle or event trigger. It can also send data files to the control center via FTP. In addition to the CGI command sending function, WISE-5231 now supports the CGI command receiving function as well that allows the devices (such as IP camera) to trigger the operation of logic rule of WISE-5231. The well-thought-out CGI command functions make WISE-5231 being able to interact with the devices flexibly in the Network environment. WISE-5231 supports various communication protocols to perform real-time I/O channel data monitoring and control. The Modbus TCP/RTU protocol of WISE allows sharing I/O channel data with the SCADA system. WISE-5231 also supports the SNMP and MQTT protocol for easy integration with the MIS, MES (Manufacturing Execution System), Facility Management, Network Management and IT systems.

WISE-5231 can be used in various applications such as building automation, machine monitoring and control, facility management, factory automation, remote maintenance and diagnosis, and environmental monitoring. It can log data, send out Emails to users and seamlessly integrate with SCADA systems.

## WISE-5231 System Architecture



## Features

- Simple, Easy-to-use, No Programming Required for System Development

WISE provides user-friendly Web UI pages for editing control logic on the controllers. To edit control logic, it only requires a browser to connect to WISE. No extra software tool installation is needed. WISE enables implementation of logic edition by a few clicks on the mouse to set up and deploy logic rules without writing a single line of code.

- IF-THEN-ELSE Logic Rules Execution Ability

WISE features an IF-THEN-ELSE logic rule engine; it offers IF-THEN-ELSE rules for users to set up the logic content. After completing rule edition and downloading rules to the WISE, the rule engine will loop execute the rules in accordance with the execution order under specific conditions.

- Connection Ability to A Variety of Sensors and Devices

WISE allows connection with sensors and devices that support Modbus TCP/RTU protocol. The ability to connect with Modbus TCP/RTU slave devices enables the flexibility and scalability for system implementation and allows to meet various requirements of the applications from the clients.

- Provide Timer and Schedule Operation

WISE features Timer and Schedule functions: It allows user to schedule specific date or time for control logic execution, or perform specific tasks such as time delay. With calendar user interface provided, Schedule setting can be more efficient and flexible.

- CGI Command Sending & Receiving for Surveillance System Integration

WISE supports full CGI command operations - CGI command sending and CGI command receiving. The CGI command sending action can be added to the logic edition as part of logic control in response to specific events. The CGI command receiving function enables WISE to receive the CGI commands from others network devices. The content of CGI command received can be used in IF condition statements to trigger the THEN/ELSE actions.

- Real-time alarm notification via SSL Email

WISE supports SSL Email sending function for real-time message notification operation. The message sending action can be added to the logic edition as part of logic control to provide real-time message notification to the related personnel when an event occurs.

- Data Logger Operation

With the microSD card, WISE provides Data Logger function to real-time record the I/O channel data of the controller and sends the data files automatically by FTP to the control center for further administration management or data analysis.

- Active I/O Sending Mechanism

In addition to the Modbus TCP/RTU slave function that enables SCADA system to poll the I/O channel data of the WISE, now WISE provides “Active I/O sending” mechanism (Modbus TCP master, SNMP Trap and MQTT publish). Based on the “Active I/O sending”, WISE allows to send the I/O channel data of the controller actively to SCADA/IT system by event trigger or periodic cycle. This function will improve the efficiency of the data communication between WISE and SCADA/IT system.

- A Variety of Protocols Supported for Integration with SCADA/IT/IoT Systems

WISE supports various SCADA/IT/IoT communication protocols to perform real-time monitoring and control of the controllers, and easy integration with the SCADA/MIS/MES/Facility management /Network management systems.

- Support Modbus TCP/RTU Protocol
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- Support MQTT (MQ Telemetry Transport) for message publish/subscribe mechanism
- Support FTP Server/Client for the maintenance of data logger files
- Support SSL/TLS authentication Email sending for alarm notification
- Support CGI command sending and receiving operations
- Support DDNS (Dynamic DNS) services

[ICP DAS USA](#) is a cost-effective leader in the U.S. industrial market; offering a stunningly competitive price/performance ratio, while catering to the latest solutions for current industrial trends. We seek to provide our customers with cost-effective, flexible, and easy-to-use solutions for their Data Acquisition and Embedded Control Applications. [ICP DAS USA](#) provides a great variety of products with modular and universal solutions for any scale application or projects.

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