



## I/O Expansion & Data Logger Module

### Features

- Built-in Web Server for IF-THEN-ELSE rule setting
- Built-in IF-THEN-ELSE rule engine for logic operation
- No more programming. Just click and get done!
- Support IO, Counter, Timer, Schedule, Email, Recipe operations
- Data logger and data files send back function supported
- Modbus TCP Protocol for SCADA Software Seamless Integration
- 10/100 Base-TX Ethernet
- Support XW-Board
- Support I-7000 Remote I/O Modules(Up to 16)
- SNTP Time Synchronization Supported



### Introduction

WISE (Web Inside, Smart Engine) is a product series developed by ICP DAS that functions 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 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 will minimize the learning curve, shorten time to market and dramatically reduce the effort and cost spent on system development.

WISE-5800 supports an I/O expansion bus to implement various I/O functions such as D/I, D/O, A/D and D/A according to the XW-Board. In addition, WISE-5800 also support ICP DAS I-7000 remote I/O modules. Based on the variety I/O module of I-7000, WISE-5800 can provide user more flexibility in application field.

WISE-5800 supports Modbus/TCP protocol to make seamless integration with SCADA software available. It include all advantages which WISE series controllers can provide. In addition, WISE-5800 provide data logger function with microSD card, it can record I/O channel value by event trigger or regular time period. The data files can be sent back by Email or FTP. All setting can be completed through browser.

### Applications

Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote diagnosis and Testing Equipment, etc.

### Specifications

Models	WISE-5800
<b>CPU Module</b>	
CPU	16-bit CPU
SRAM	768 KB
Flash	512 KB
EEPROM	16 KB
NVRAM	31 Bytes
microSD Expansion	Yes, can support 1 or 2 GB microSD
RTC (Real Time Clock)	RTC Provide seconds, minutes, hours, date of week/month; month and year
Watchdog Timers	Yes (0.8 second)
<b>Communication Ports</b>	
Ethernet	RJ-45 x 1, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)
COM 1	RS-232 (Reserved, Unsupported by WISE firmware)
COM 2	RS-485 (D±, D±-), self-tuner ASIC inside, non-isolated, Speed : 115200 bps max.
<b>LED Indicator</b>	
System LED	Yes (Red)
Ethernet Link LED	Yes (Green : Ethernet link detected, Flashing Green : Ethernet packet received)
LED Display	-
<b>Hardware Expansion</b>	
I/O Expansion Bus	Yes
<b>Mechanical</b>	
Dimensions (W x H x D)	91 mm x 123 mm x 52 mm
Installation	DIN-Rail
<b>Environmental</b>	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +80 °C
Ambient Relative Humidity	5 ~ 90% RH (non-condensing)
<b>Power</b>	
Protection	Power reverse polarity protection
Frame Ground	Yes (for ESD Protection)
Input Range	+12 ~ +48 V <sub>DC</sub>
Redundant Power Input	Yes
Power Consumption	2.0 W

