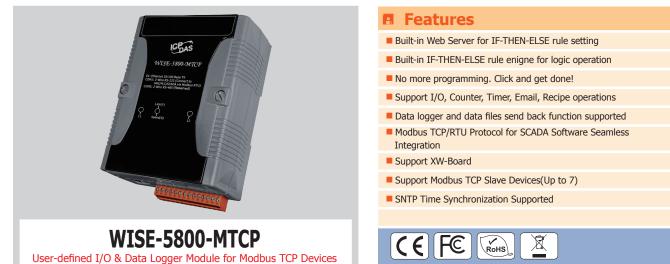


Ethernet I/O Modules



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 labor and cost spent on system development.

WISE-5800-MTCP 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-MTCP also supports Modbus TCP slave devices. Based on the connection ability with Modbus TCP slave devices, WISE-5800-MTCP can provide user more flexibility in application field.

WISE-5800-MTCP supports Modbus TCP/RTU protocol to make seamless integration with SCADA software available. It includes all advantages which WISE series controllers can provide. In addition, WISE-5800-MTCP provides 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, Testing Equipment, etc.

System Specifications _

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System	
CPU	16-bit CPU
SRAM	768KB
Flash Memory	512KB
EEPROM	16 KB
NVRAM	31 Bytes
microSD Expansion	Support 1/2/4 GB microSD
RTC (Real Time Clock)	Provide second, minute, hour, date of week, month and year
Watchdog	Yes
Communication	
Ethernet	RJ-45 x 1, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X)
COM 1	RS-232 (TxD, RxD, RTS, CTS, GND), non-isolated, Speed: 115200 bps max.
COM 2	RS-485 (D2+, D2-), self-tuner ASIC inside, non-isolated, Speed: 115200 bps max. (Reserved)
LED Indicators	
System LED	Yes (Red)
Ethernet Link LED	Yes (Green: Ethernet link detected, Flashing Green: Ethernet packet received)
Hardware Expansion	
I/O Expansion Bus	Yes
Power Requirements	
Protection	Power Reverse Polarity Protection
Frame Ground	Yes (for ESD Protection)
Input Range	$12 \sim 48 \text{ V}_{DC}$
Redundant Power Input	Yes
Power Consumption	2.0 W
Mechanical	
Dimensions (W x H x D)	91 mm x 132 mm x 52 mm
Installation	DIN-Rail
Environmental	
Operating Temperature	-25 °C ~ +75 °C
Storage Temperature	-30 °C ~ +80 °C
Humidity	10 ~ 90% RH, non-condensing

Software Specifications _

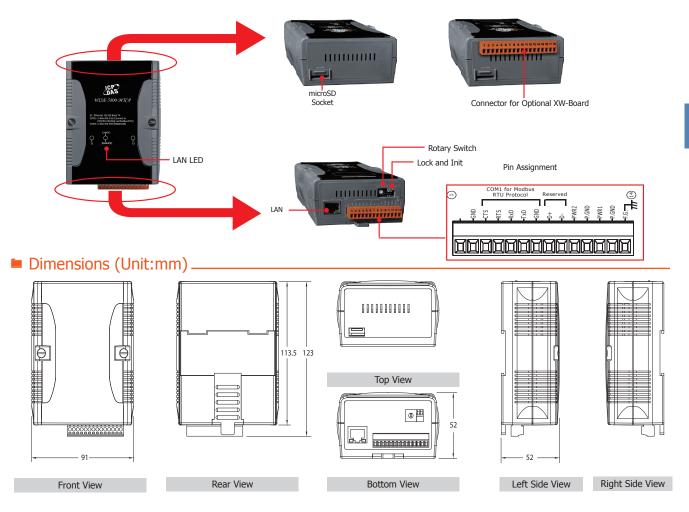
Functions				
Rule Configuration Website	Access Web server on WISE controllers to edit and upload logic rules through web browser.			
36 IF-THEN-ELSE Logic Rules	3 IF conditions with AND or OR operators 3 THEN actions and 3 ELSE actions			
48 Internal Registers	Hold temporary variables and read/write data via Modbus/TCP address.			
12 Timers	Delay / Timing functions.			
12 Schedules	Setup prescheduled routine tasks.			
12 Emails	Send Email messages to pre-set Email receivers.			
12 CGI Commands	Send pre-set CGI commands.			
12 Recipes	Set up THEN/ELSE action groups.			
Data Logger	Set up the Data Logger configuration, include the data record format, and data file sending operation.			
Modbus TCP/RTU Protocol	Real time control and monitoring I/O channels and system status of controllers via SCADA software.			

IF Conditions			
DI Channel	ON, OFF, ON to OFF, OFF to ON, Change		
AI Channel	=, >, <, >=, <= (value)		
Internal Register			
DI Counter	=, >, <, >=, <= (value), Change		
Timer	Timeout, Not Timeout		
Schedule	In Range, Out of Range		
Rule Status	Enable, Disable		
	THE		



THEN / ELSE Actions			
DO Channel	ON, OFF, Pulse Output(apply to XW-Board only)		
AO Channel	Change the value		
Internal Register			
DI Counter	Reset		
Timer	Start, Reset		
Schedule	Enable, Disable		
Email	Send		
CGI Commands			
Recipe	Execute		
Data Logger	Start, Stop, One-Time Log		
Rule Status	Enable, Disable		

Appearance .



Ordering Information_

WISE-5800-MTCP	User-defined I/O & Data Logger Module for Modbus TCP Devices	
Accessories		
NS-205 CR	Unmanaged 5-Port Industrial Ethernet Switch (RoHS)	
MDR-20-24 CR	24V/1A, 24 W Power Supply with DIN-Rail Mounting (RoHS)	
DIN-KA52F CR	24V/1.04A, 25 W Power Supply with DIN-Rail Mounting (RoHS)	
3LMSD-4000 CR	4 GB microSD card (RoHS)	

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