CIE-M10 (8 Ports Remote I/O Module)



Overview

CIE-M10 is an Ethernet remote I/O module that has 8 input ports, 8 output ports and an ADC(Analog to Digital Conversion) port for sensors to detect temperature, humidity or pressure. This remote I/O module is additionally equipped with a UART interface to allow your serial devices to establish an Ethernet networking connection. CIE-M10 mainly enables you to extend the distance of the I/O control system, therefore you are able to remotely control and monitor your I/O devices over the Internet from anywhere in the world.

As well as with a simple management tool(ModMap), this Ethernet remote I/O module comes preloaded with a user web page, which is available to customize with your own graphic images, to ease control and surveillance on the website. Besides, a Macro function allows each relay output to be automatically controlled as set by simple logic formula.

Since this Ethernet remote I/O module has various methods to control outputs and monitor inputs such as HTTP, Modbus/ TCP and Serialized Modbus/TCP, it is available on various environments such as Internet Switch, etc.

Icons

73.3V

DNS

IDentificat

MAC

MODULE

DDNS

RoHS

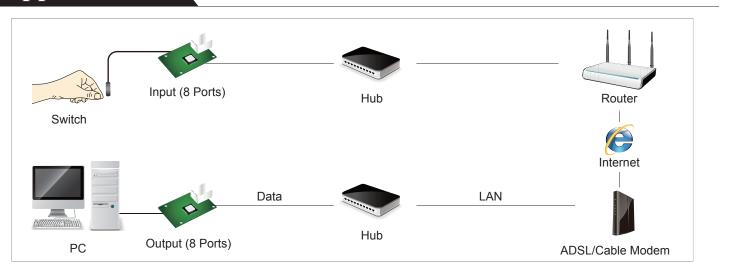
Compliant

HTTF

Highlights

- 10Base-T or 100Base-TX (Auto-Sensing), auto MDI/MDIX
- 8 x digital input ports (3.3V CMOS)
- 8 x digital output ports (3.3V CMOS)
- 1 x analog input port (10 bits resolution ADC)
- 1 x UART (Maximum data rate: 230,400bps)
- Supports Modbus/TCP
- Stored Web server for simple management (Custom web page)
- MACRO (Stand-alone operation supports simple logical expressions)

Applications

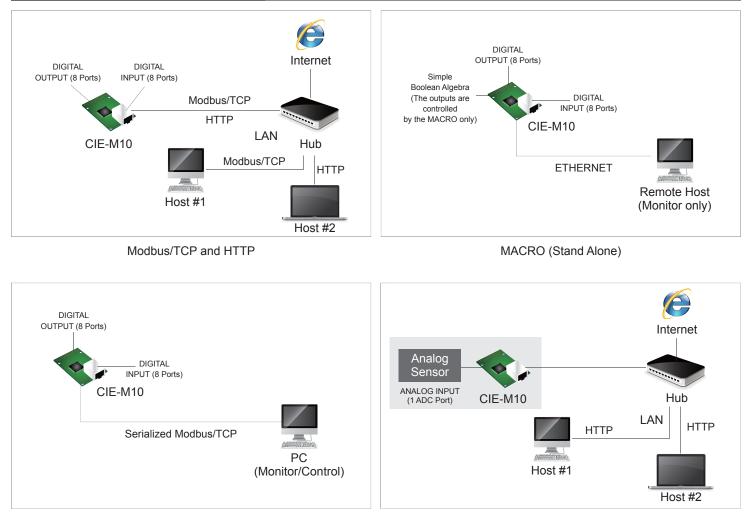


Specifications

Digital Input Port		
Number of Ports	8	
Interface	3.3V CMOS	
Electric Parameter	Min VIL = -0.3V, Max VIL = 0.8V / Min VIH = 2.0V, Max VIH = 5.5V	
Digital Output Port		
Number of Ports	8	
Interface	3.3V CMOS	
Relay Capacity	Min VOH = 2.9V, Max VOL = 0.4V	
	Analog Input Port	
Number	10bit ADC 1 Port	
Interface	ADIN, ADVREF	
Conversion Time	2.33us	
Electric Parameter	Min ADVREF = 2.6V, Max ADVREF = 3.3V	
	ADIN's Input Voltage Range = 0V ~ ADVREF	
	Serial Physical Interface	
Serial Interface	1 x UART Port / RXD, TXD, RTS, CTS, GND	
	Min VIL = -0.3V, Max VIL = 0.8V	
Electric Parameter	Min VIH = 2.0V, Max VIH = 5.5V	
	Min VOH = 2.9V, Max VOL = 0.4V	
	Serial Port Property	
Baudrate	300 bps ~ 230,400 bps	
Data Bits	5, 6, 7, 8 bits	
Parity	None, Even, Odd, Mark, Space	
Stop Bit	1, 1.5, 2	
	Network Physical Interface	
Network Interface	10Base-T/100Base-TX Ethernet (RJ45)	
	Ethernet Speed Auto Sense	
	1:1 or Cross-over Cable Auto Sense	
	1000 VAC Isolation	
Software Functions		
Protocols	TCP, UDP, IP, ICMP, ARP, Ethernet, TELNET	
	TFTP, DHCP, PPPoE, DNS, DDNS, HTTP, Modbus/TCP	
	Telnet COM Port Control Option (RFC2217)	
Security	IP & MAC filtering - Restrict host or network	
	Password for Configuring	
Digital I/O Port	Modbus/TCP, HTTP(User web page)	
Communication Mode	Stand alone(by simple equation)	
Serial Communication Mode	TCP Server (T2S)	
	TCP Client (COD)	
	TCP Server/Client with AT command (ATC) - Patent	
	UDP Mode (U2S)	

	Remote Debug Function	
Additional Functions	TCP Server/Client Mode	
	Sending MAC address Option	
Indicators (LEDs)		
Power	Red	
Digital Output Port 0	Green	
Management		
ezManager	Configuration and Monitoring Tool through Ethernet	
Telnet	Telnet Login	
AT Command	Configuring in ATC mode - Patent	
Supplementary Software		
Modmap	Modbus/TCP program for management of CIE-M10	
ezVSP	Serial to Network Virtual Driver for Windows	
ezTerm	Simple TCP/IP Communication Test Tool	
Dimension		
Size	644mm x 40mm x 17mm	
Operating Environment		
Input Voltage	DC 3.3V±0.3V	
Current Consumption	190mA @ 3.3V without load	
Operating Temperature	0°C ~ +70°C	
Storage Temperature	-40 °C ~ +85 °C	

System Diagram



Serialized Modbus/TCP

Analog Input Monitoring