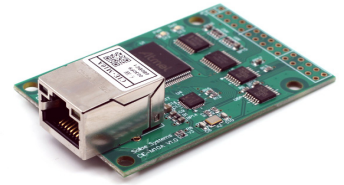


Data Sheet

CIE-M10A | 8 Ports Remote I/O Controller



Overview

CIE-M10A is a remote I/O module consisting of 8 digital inputs, 8 digital outputs, and 1 ADC (Analog to Digital Conversion) port. Users can monitor and control the devices through the Internet.

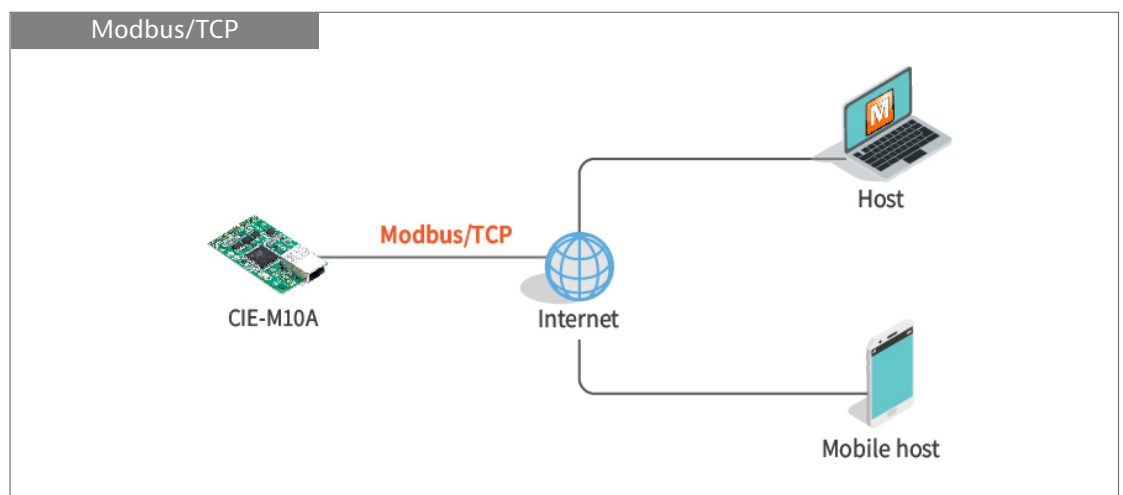
CIE-M10A supports Modbus/TCP and HTTP. It can be connected by a free software ModMap or an HMI program that supports Modbus/TCP. It can also be accessed via HTTP by a web browser. In this case, users can upload customized web pages to the device. The device also provides a macro function that allows the output port to be controlled by the input ports with a simple logic equation.

Besides, CIE-M10A can work as a serial gateway that provides serial to TCP/IP converting function.

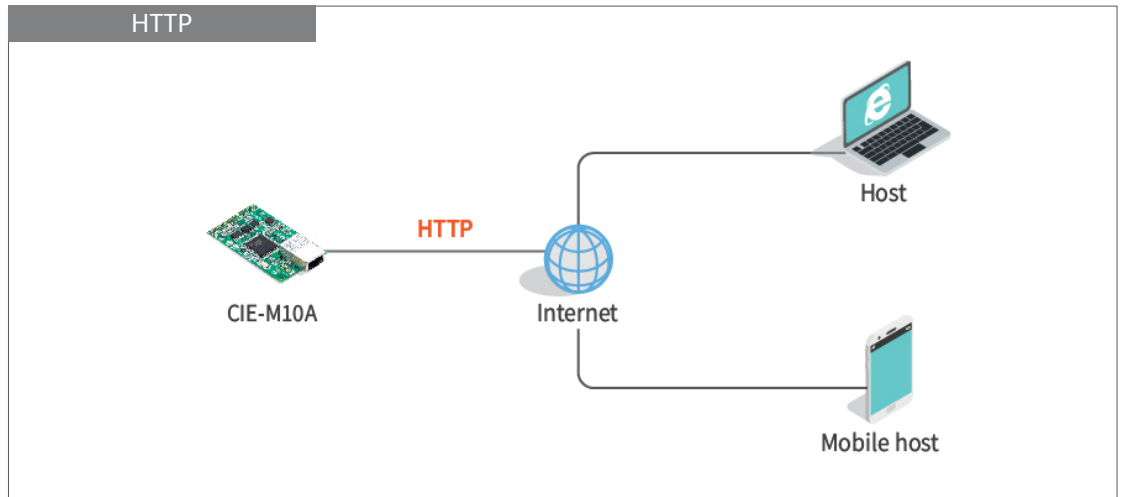
Features

- 8 digital input ports (3.3V CMOS)
- 8 digital output ports (3.3V CMOS)
- Modbus/TCP
- Web (HTTP)
- Internet switch
- Free Modbus/TCP program to monitor and control (ModMap)
- Serial↔TCP/IP conversion

System Diagram



System Diagram



Specifications

Digital Input Port	
Interface	8 x 3.3V CMOS
Electric Parameter	Min VIL = -0.3V, Max VIL = 0.8V
	Min VIH = 2.0V, Max VIH = 5.5V
Digital Output Port	
Interface	8 x 3.3V CMOS
Electric Parameter	Min VOH = 2.9V, Max VOL = 0.4V
Analog Input Port	
Interface	1 x 10bit ADC
	ADIN, ADVREF
Electric Parameter	Min ADVREF=2.6V, Max ADVREF=3.3V
	ADIN's Input Voltage Range = 0V ~ ADVREF
Conversion Time	2.33us
Serial Port	
Interface	1 x UART
	RXD, TXD, RTS, CTS, GND
Electric Parameter	Min VIL = -0.3V, Max VIL = 0.8V
	Min VIH = 2.0V, Max VIH = 5.5V
	Min VOH = 2.9V, Max VOL = 0.4V
Baudrate	300 ~ 230,400 [bps]
Data Bits	5, 6, 7, 8
Parity	None, Even, Odd, Mark, Space
Stop Bit	1, 1.5, 2
Ethernet Port	
Interface	10Base-T/100Base-TX Ethernet (RJ45)
	10M/100M auto sense
	1:1 or Cross-over cable auto sense

Specifications

Software Functions	
Protocol	Modbus/TCP, HTTP, TCP, UDP, IP, ICMP, ARP, DHCP, PPPoE, TELNET, TFTP, DNS, DDNS
Security	IP & MAC filtering Password for configuring
Controlling/Monitoring Method	Modbus/TCP, HTTP, Macro
Serial Port Communication Mode	TCP server, TCP client, UDP, AT command
Indicators	
System LED	PWR , STS(RJ45-Yellow), LINK(RJ45-Green)
I/O Port LED	Do0
Supplementary Software	
ezManager	Configuration tool for Windows
ModMap	Management tool of I/O controllers for Windows
Dimension	
Size	64.4 x 40 x 17 [mm]
Weight	16g
Operating Environments	
Input Voltage	DC 3.3V±0.3V
Current Consumption	78mA (typical condition)
Operating Temperature	-40 ~ +85 [°C]
Storage Temperature	-40 ~ +85 [°C]