

# CIE-H10

(8 Ports Remote I/O Controller)



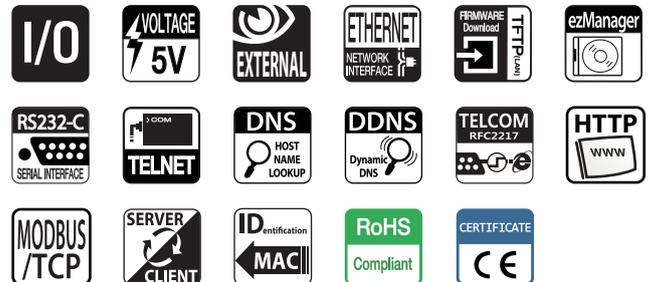
## Overview

CIE-H10 is a remote I/O controller. This product helps to monitor and control digital inputs and outputs remotely. By applying it, not only you can reduce cost and risk, but also you can shorten development time to add the network capability in your system. Because CIE-H10 allows to extend the distance of your I/O control system, you are able to remotely control and monitor the I/O devices over the Internet anywhere you are. Since CIE-H10 has various methods for I/O control such as HTTP, Modbus/TCP and Serialized Modbus/TCP, it is available on various environments.

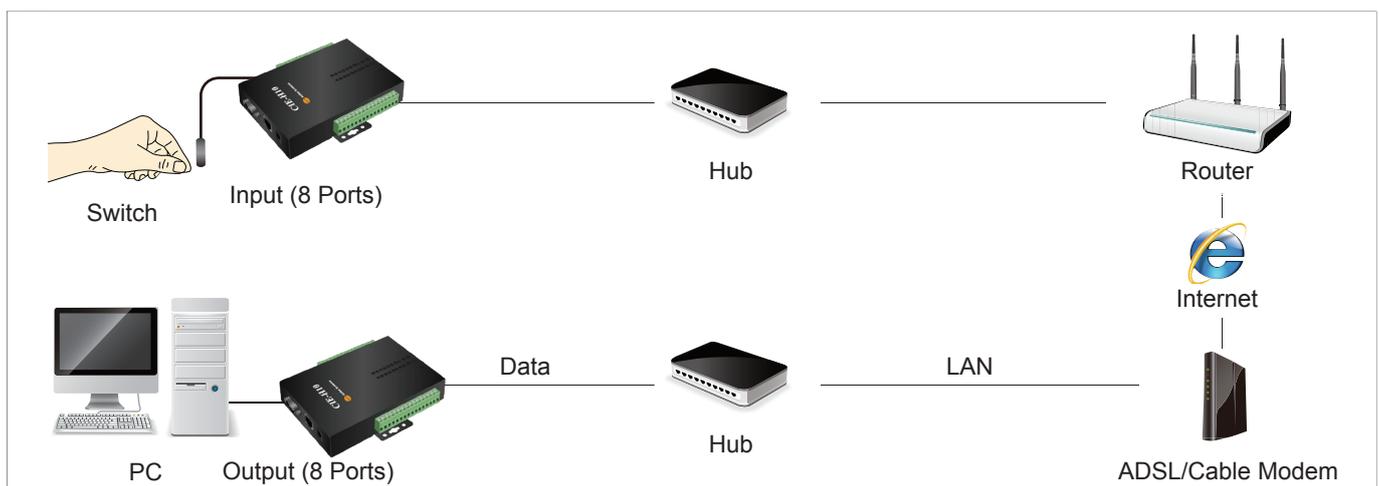
## Highlights

- Remote I/O controller
- RS232 to Ethernet Converter
- 10Base-T or 100Base-TX (Auto-Sensing), auto MDI/MDIX
- 8 Digital Input Ports (Photo-coupler interface)
- 8 Digital Output Ports (Relay interface)
- 1 x RS232 (up to 230,400bps, DB9-M interface)
- Access Restriction : IP and MAC address filtering, Password
- Stored Web server for simple management (Custom web page)
- MACRO  
(Stand-alone operation supports simple logical expressions)
- Supports Modbus/TCP

## Icons



## Applications



# Specifications

Digital Input Port	
Number of Ports	8
Interface	Isolated by Photo-coupler
Electric Parameter	MAX VIL=1.2V, MIN VIH=1.8V
Maximum Input Voltage	DC 24V
Digital Output Port	
Number of Ports	8
Interface	Isolated by Relay
Relay Capacity	5A (DC28V)
Serial Physical Interface	
Serial Interface	1 x RS232 Port
	RXD, TXD, RTS, CTS, DTR, DSR
	±15KV ESD Protection
Connector	DB9M Connector
Serial Port Property	
Data Rate	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, HTTP, Modbus/TCP
	Telnet COM Port Control Option (RFC2217)
Security	IP & MAC filtering - Restrict host or network
	Password for Configuring
Digital I/O Port Communication Mode	Modbus/TCP, HTTP
	Stand alone (by simple equation)
Serial Communication Mode	TCP Server (T2S)
	TCP Client (COD)
	TCP Server/Client with AT command (ATC)
	UDP Mode (U2S)
Additional Functions	Remote Debug Function
	TCP Server/Client Mode
	Sending MAC address Option

### Indicators (LEDs)

Power	Red
Status	Yellow, The current status
Ethernet Link	Red - 10M Ethernet, Green - 100M Ethernet
Ethernet RXD	Yellow
Ethernet TXD	Green
Digital Input	8 Yellow x 8
Digital Output	8 Green x 8

### Management

ezManager	Configuration and Monitoring Tool through Network and Serial
Telnet	Telnet Login
AT Command	Configuring in ATC mode

### Supplementary Software

ezManager	Configuration Tool for Windows
ezVSP	Serial to Network Virtual Driver for Windows
ezTerm	Simple TCP/IP Communication Test Tool

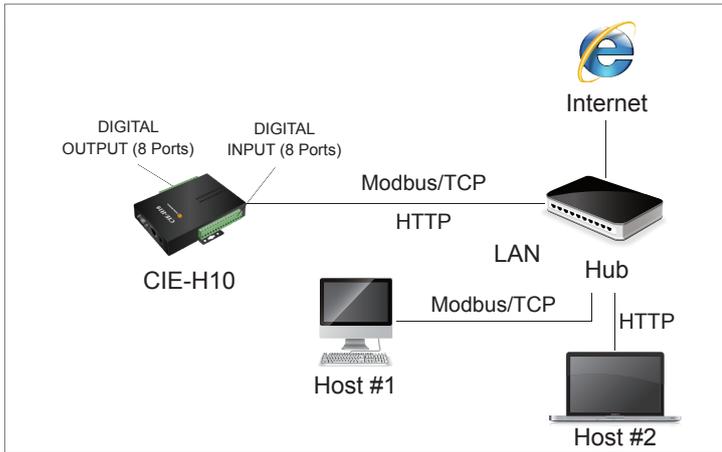
### Dimension

Size	153mm x 126mm x 32mm
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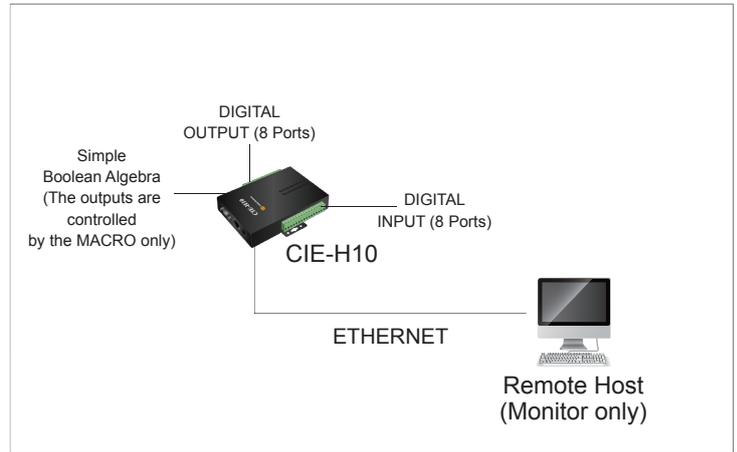
### Operating Environment

Input Voltage	DC 5±0.5V
Current Consumption	510mA typical
Operating Temperature	0°C ~ +55°C
Storage Temperature	-40°C ~ +85°C

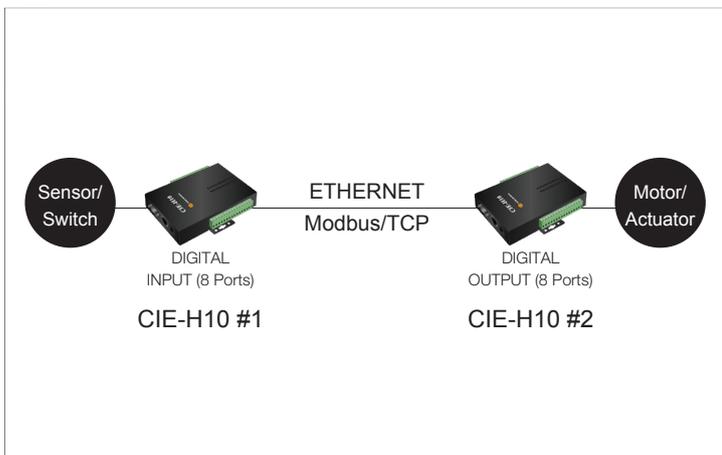
# System Diagram



Modbus/TCP and HTTP



MACRO (Stand Alone)



INTERNET SWITCH



SERIAL SWITCH