

# CIE-H14

(4 Ports Remote I/O Controller)



## Overview

CIE-H14 is an Ethernet remote I/O controller that has 4 photo coupler input ports and 4 relay output ports for sensors and actuators to monitor and control. This remote I/O controller is additionally equipped with a RS232 serial interface to allow your serial devices to establish an Ethernet networking connection. CIE-H14 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 remote I/O controller 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.

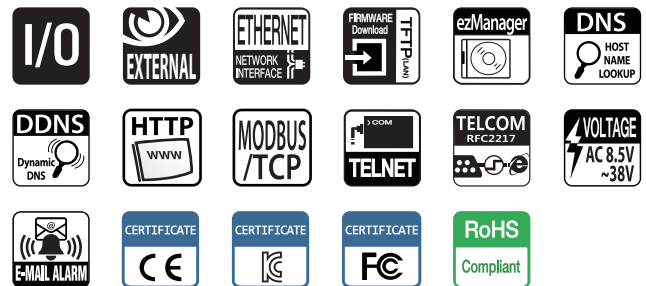
Since this Ethernet remote I/O controller has various methods to control relay outputs and monitor the inputs such as HTTP, Modbus/TCP and Serialized Modbus/TCP, it is available on various environments such as Remote PC Power Control, Internet Switch, etc.

## Highlights

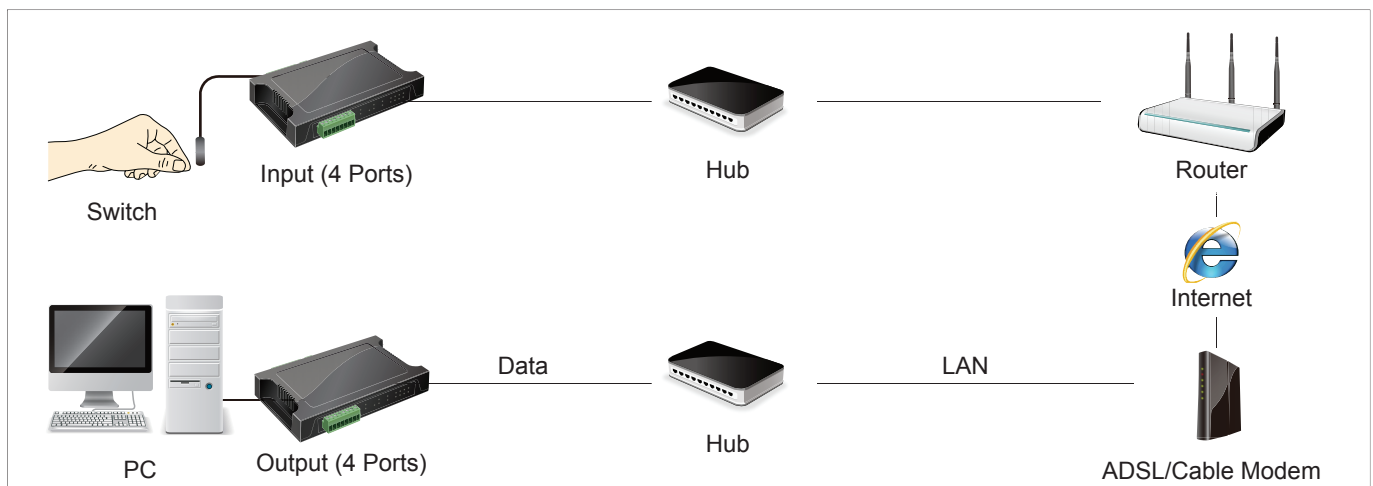
- Remote I/O controller
- 10Base-T or 100Base-TX (Auto-Sensing), auto MDI/MDIX
- RS232 to Ethernet converter
- 4 digital input ports (photo-coupler interface)
- 4 digital output ports (relay interface)
- Monitoring and surveillance over the HTTP
- E-mail alarm to notify ports status change
- Available to upload user web pages
- DC8.5V ~ 38V (polarity auto detection)
- MACRO

(Stand-alone operation supports simple logical expressions)

## Icons



## Applications



# Specifications

Digital Input Port	
Number of Ports	4
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	4
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	Green
Ethernet Link	Green
Ethernet RXD	Green
Ethernet TXD	Green
Digital Input	4 Green x 4
Digital Output	4 Green x 4

## 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

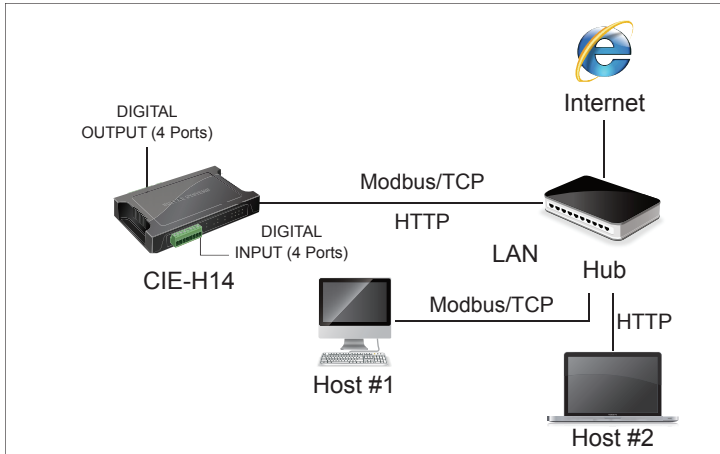
## Dimension

Size	174mm x 123mm x 28mm
------	----------------------

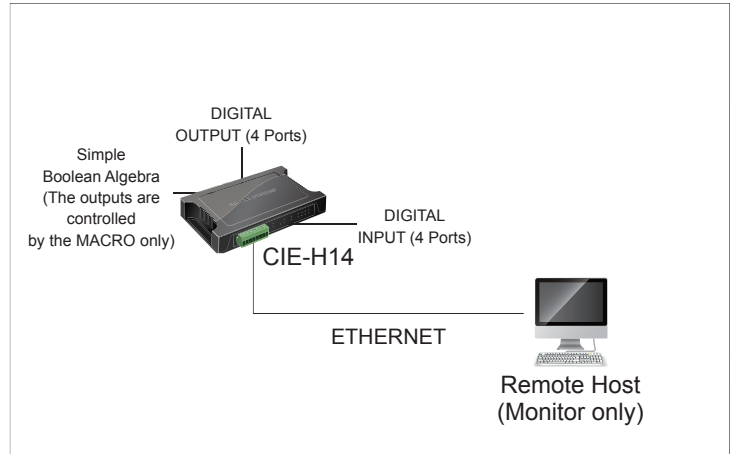
## Operating Environment

Input Voltage	DC 8.5 ~ 38V
Power Consumption	3W typical
Operating Temperature	0°C ~ +70°C
Storage Temperature	-40°C ~ +85°C

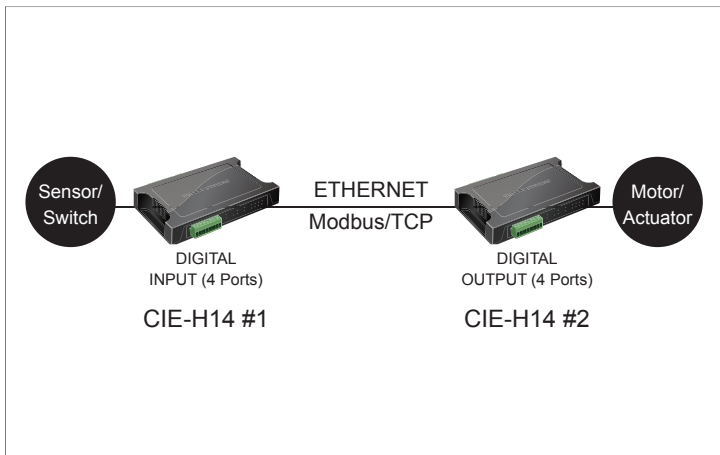
# System Diagram



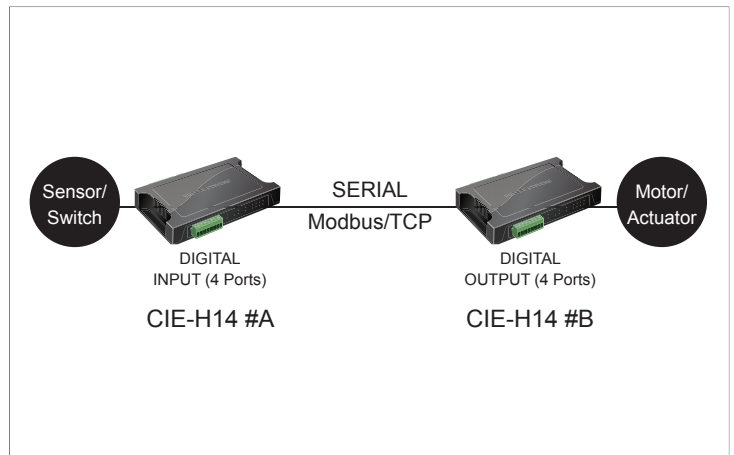
Modbus/TCP and HTTP



MACRO (Stand Alone)



INTERNET SWITCH



SERIAL SWITCH