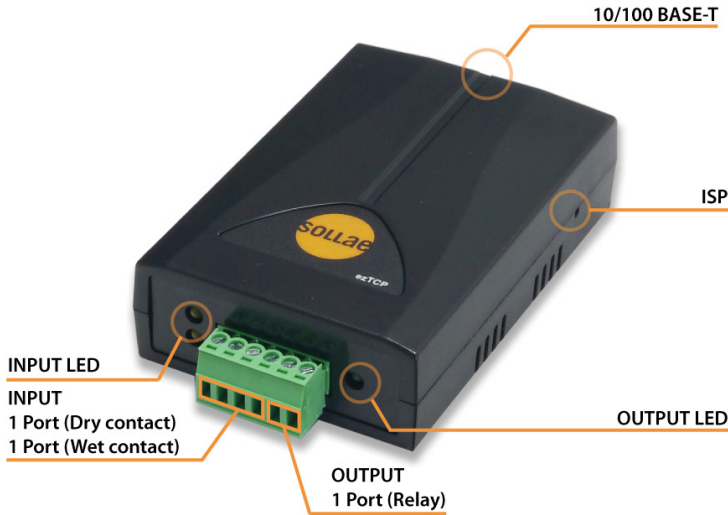


# CIE-H12

## (Remote I/O Controller)



## Overview

CIE-H12 is a remote I/O controller.

This product helps to monitor and control digital inputs and outputs remotely.

Applying this module, not only you can reduce cost and risk, but also you can shorten development time to add the network capability in your system.

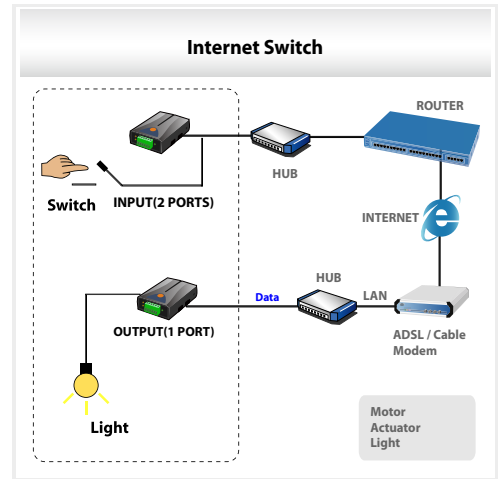
Because CIE-H12 allows to extend the distance of your I/O control system, you are able to remotely control and monitor the I/O devices over the Internet anywhere you are.

Since CIE-H12 has various methods for I/O control such as HTTP and Modbus/TCP, it is available on various environments.

## Highlights

- Remote I/O controller
- 2 Digital Input ports (dry contact 1 port, wet contact 1 port)
- 1 Digital Output Port (relay interface)
- Modbus/TCP monitoring and surveillance
- Monitoring and surveillance over the HTTP (available to upload user web pages)
- Support of control of simple logic formula (available to operate autonomously)
- Security Functions (IP filtering, password)
- Support of DHCP, PPPoE (available for various dynamic IP environments)
- Support of various host connection mode (TCP server, TCP client)
- Multiple check functions of communication conditions (debugging mode, ezManager, TELNET)
- Easy access by host name (DNS)
- Available as a server by using the host name in the dynamic IP environment (DDNS)
- IP address notification function (DDNS) useful in the dynamic IP environment
- Support of the easy-to-use environment setting program for PC (ezManager)
- Support of the Modbus/TCP program for integrated management of I/O equipment
- Firmware-upgrading function over the LAN
- Environmentally-friendly RoHS compliant

## Applications



## Specifications

### \* Digital Input Port

Number of Ports  
2

#### Interface:

isolated by Photo-coupler x 2

#### Electric Parameter

MAX VIL=1.2V, MIN VIH=1.8V

#### Maximum Input Voltage

DC 24V

### \* Digital Output Port

Number of Ports  
1

#### Interface

isolated by Relay

#### Relay Capacity

5A (DC28V),

10A (AC125V), 5A (AC250V)

### \* Network Physical Interface

#### Network Interface

RJ45 (10Base-T/100Base-TX Ethernet)

Ethernet Speed Auto Sense

1:1 or Cross-over Cable Auto Sense

1000 VAC Isolation

### \* Software Functions

#### Protocols

TCP, UDP, IP, ICMP, ARP, DHCP, PPPoE,  
DNS, DDNS, HTTP, Modbus/TCP

#### 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), Remote Digital I/O

#### Additional Functions

Remote Debug Function

### \* Indicators(LEDs)

#### Status

Yellow, The current status

#### Ethernet Link/RXD/TXD

Green

#### Digital Input

2 LEDs

#### Digital Output

1 LED

### \* Processors

#### CPU

ARM7 Core

#### ROM

256K bytes Flash Memory

#### RAM

64K bytes SRAM

### \* Management

### ezManager

Configuration and Monitoring Tool through  
Ethernet

#### Telnet

Telnet Login

### \* Supplementary Software

#### ezManager

Configuration Tool for Windows  
ModMap

Management of I/O controllers  
for Windows

### \* Dimension

#### Size

96mm x 57mm x 24mm

#### Body Netweight

about 68g

### \* Operating Environment

#### Input Voltage

DC 5±0.5V

#### Power Consumption

305mA typical

#### Operating Temperature

0 °C ~ 70 °C

#### Storage Temperature

-40 °C ~ 85 °C

#### CE

F690501/RF-EMY006493

#### KC

KCC-REM-SLS-CIE-H12

### \* Emissions

EN55022:2006/A1:2007 (Class A)

EN61000-3-2:2006

EN61000-3-3:1995/A1:2001/A2:2005

EN55024:1998/A1:2001/A2:2003

### \* Immunity

EN61000-4-2:1995/A1:1998/A2:2001

EN61000-4-3:2006

EN61000-4-4:2004

EN61000-4-5:2006

EN61000-4-6:2007

EN61000-4-11:2004

## System Diagram

