CIE-H10

(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.

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.

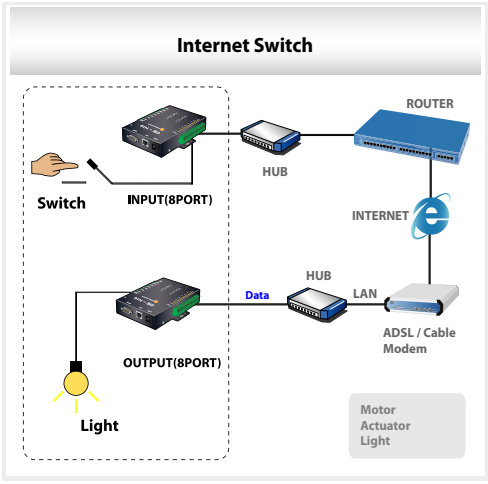
Because CIE-H10 allows to extend the distance of your I/O control system, you are able to remotely control and monitor the I/O devices over the Internet anywhere you are.

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
- 10/100Base-T Ethernet, auto MDI/MDIX
- 8 Digital Input Ports (photo-coupler interface)
- 8 Digital Output Ports (relay interface)
- 1 x RS232 (up to 230,400bps, RS232 <--> TCP/IP processing)
- 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
- Flexible configuration and network communication by 'AT Commands' (patent)
- 4 Communication modes (TCP server, TCP client, AT Command and UDP)
- Variety of monitoring status (debugging mode, ezManager, Telnet)
- DHCP and PPPoE
- DNS (easy access using domain name)
- DDNS (dynamic IP address management by domain name)
- IP Change Notification for dynamic IP address management (TCP, UDP and DDNS)
- Telnet COM Port Control Option (RFC 2217)
- Firmware upgrade through Network
- Powerful management software for Windows OS (ezManager)
- Virtual COM port redirector for Windows OS (ezVSP)
- Environmentally-friendly RoHS compliant

Applications



SOLLAE SYSTEMS CO.,LTD. www.sollae.co.kr
607 INCHEON IT TOWER 592-5 DOHWA1-DONG NAM-GU INCHEON 402-711 KOREA(REPUBLIC OF)
PH +82.32.245.2323 FX +82.32.245.2327 E-mail : sales@eztcp.com

Specifications

**Digital Input Port*

Number
8 ports

Interface:
isolated by Photo-coupler

Electric Parameter
MAX VIL=1.2V, MIN VIH=1.8V

Maximum Input Voltage
DC 24V

**Digital Output Port*

Number
8 ports

Interface
isolated by Relay

Relay Capcacity
5A (DC28V),
10A (AC125V), 5A (AC250V)

**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 ~ 230400 bps

Data Bits
5, 6, 7, 8 bits

Parity
None, Even, Odd, Mark, Space

Stop Bit
1, 1.5, 2

Flow Control
RTS/CTS, DTR/DSR Hardware

** 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, Ethernet, TELNET TFTP, DHCP, PPPoE, DNS, 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

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 LEDs

Digital Output
8 LEDs

** Processors*

CPU
ARM7 Core

ROM
256K bytes Flash Memory

RAM
64K bytes SRAM

** Management*

ezManager
Configuration and Monitoring Tool thrugh Ethernet

Telnet
Telnet Login

AT Command
Configuring in ATC mode

** Supplenetary Software*

ezManager
Configuration Tool for Windows

ezVSP
Serial to Network Virtual Driver for Windows

ezTerm
Simple TCP/IP Communication Test Tool

hotflash
Firmware Upgrade Utility for Windows

** Dimension*

Size
153mm x 126mm x 32m

Body Netweight
about 530g

** Operating Environment*

Input Voltage
DC 5±0.5V

Power Consumption
510mA typical

Operating Temperature
0 ℃ ~ 55℃

Storage Temperature
-40 ℃ ~ 85℃

CE
F690501/SP-EMC000976

MIC
SLS-CIE-H10 (A)

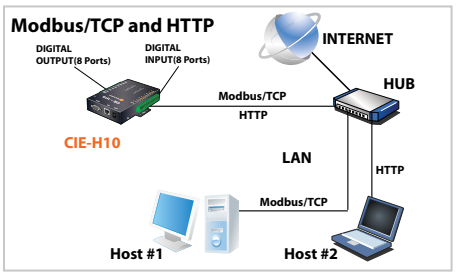
** Emissions*

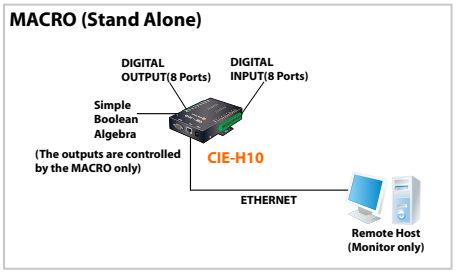
EN55022:1998/A1:2000/A2:2003 (Class A)
EN61000-3-2:2000
EN61000-3-3:1995/A1:2001
EN55024:1998/A1:2001/A2:2003

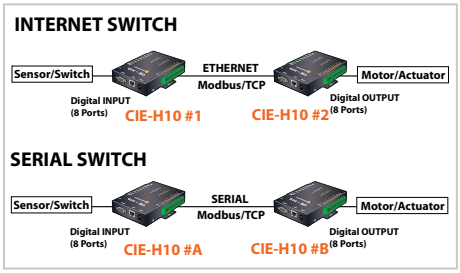
** Immunity*

IEC61000-4-2:2001
IEC61000-4-3:2006
IEC61000-4-4:2004
IEC61000-4-5:2005
IEC61000-4-6:2006
IEC61000-4-11:2004

System Diagram







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