



I-8KE4-MTCP-G



I-8KE8-MTCP-G

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I-8KE8-MTCP-G

Modbus/TCP I/O Unit

(Ethernet enables Modbus commands to run over TCP/IP)

## Introduction

I-8KE4-MTCP-G and I-8KE8-MTCP-G are Modbus/TCP I/O units with Modbus communication protocol. They support most of 8K and 87K series I/O modules, such as DI, DO, DIO, AI, AO, etc.. Most SCADA software support Modbus communication protocol, thus users can easily and quickly integrate remote I/Os to the SCADA software as data acquisition and monitor to apply to environment monitoring, power management, factory automation, etc.

## Features

- Supports IPv4
- Supports Modbus/TCP communication protocol at Ethernet port
- Supports Modbus/RTU communication protocol at RS-232 port
- Supports 8K and 87K series DI/DO/AI/AO/Counter/Frequency modules
- I/O configurable via the Ethernet (Using the Modbus Utility)
- I/O scan engine  
The engine can automatically scan I/O modules plug in slots and range I/O registers address to continuous to have high-data-density registers to get best communication efficiency
- Support power on value and safe value for analog/digital output module
- Detection of I/O module communication status (online/offline)
- The SMMI of the panel can be used to
  1. Configure the network setting (IP, Mask, Gateway)
  2. Set the offset value of AI/AO module
- Allowed a maximum of 8 host PCs access simultaneously
- Firmware updateable (via the RS-232 port)
- Firmware programmable  
We provide the Modbus SDK allowing users customized the Modbus firmware

## Modbus Utility

The Modbus Utility package is for Windows 98/SE/2K/XP. It includes

- **Modbus Utility**
  1. On-line configuration via Ethernet
  2. TO memorize the I/O setting in EEPROM
  3. Automatically generate register mapping tables
  4. Configuration export/import
  5. COM Port setting (Modbus/RTU gateway, VxComm, UpLink, Programming, Debug)
  6. show I/O value by 3 modes (Value, Dec, Hex)
  7. Analog output, digital output control
  8. Plot trend line
  9. I/O value datalog (.txt file)
  10. Power on value, safe value, WDT setting
- **MBRTU**  
Modbus/RTU client (with source code in VB6) to diagnostic Modbus/RTU slave devices
- **MBTCP**  
Modbus/TCP client (with source code in VB6) to diagnostic Modbus/TCP slave devices

## Specifications

### CPU module

CPU	CPU:80186-80 or compatible (16-bit and 80MHz)
SRAM	512KBytes
Flash	512KBytes

EEPROM	2KBytes
NVRAM	-
RTC (real time clock)	-
Hardware Serial Number	-
Built-in Watchdog Timer	Yes

### Communicate Interface

COM 0	Internal communication with the 87K modules
COM 1	RS-232 (to update firmware)
COM 2	-
COM 3	-
COM 4	-
Ethernet Port	10BaseT NE2000 compatible

### SMMI

5 - Digit LED Display	Yes
3 - Programmable LED Indicators	Yes
4 - Push Buttons	Yes

### I/O expansion slots

I-8KE4-MTCP	4 Slots
I-8KE8-MTCP	8 Slots

### Dimensions

I-8KE4-MTCP	230 x 110 x 75.5 mm
I-8KE8-MTCP	354 x 110 x 75.5 mm

### Operating Environment

Operating Temperature	-25°C to +75°C
Storage Temperature	-30°C to +85°C
Humidity	5 ~ 95%,non-condensing

### Power

Protection	Power reverse polarity protection
3KV power isolation	Yes
Power requirement	10 ~ 30 V/DC
Power supply	20W
Power consumption	I-8KE4-MTCP: 3.9 W I-8KE8-MTCP: 5.1 W

### Ordering information

<b>I-8KE4-MTCP-G</b>	4-slots Ethernet I/O unit (Gray color)
<b>I-8KE8-MTCP-G</b>	8-slots Ethernet I/O unit (Gray color)

### Optional Accessories

KA-52F	AC100~250V input, DC 24V/1A output, flat type power supply
DIN-KA52F	KA-52F with DIN-Rail mount
DP-665	AC 85 ~ 270 V input, DC 24V/1.7A and 5V/0.5A output power supply
DP-660	24V/1.7A 5V/0.5A Power Supply
DP-1200	24V/5A Power Supply