

# ET-87P4/ET-87P8

I/O Expansion Unit



Model: ET-87P4



Model: ET-87P8

## Introduction

ET-87Pn series is a remote intelligent I/O expansion unit to expand I-87K series I/O modules over the Ethernet for industrial monitoring and controlling applications. It offers two Ethernet switch ports to form a daisy-chain topology. The daisy-chain feature allows ET-87Pn to connect in series to each other or other Ethernet devices. Uses can easily simplify the cabling and save installation space with the feature.

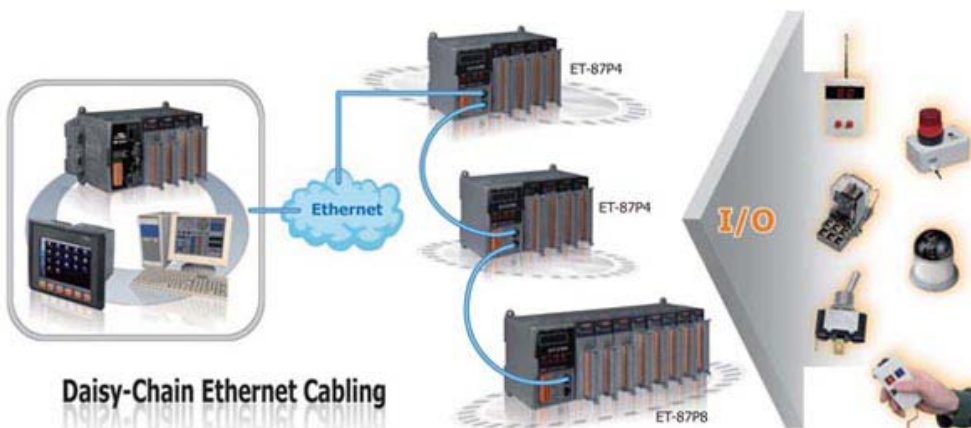
ET-87Pn is designed to be used in harsh and noisy environment, so the hardware is manufactured with wide power input range (10 ~ 30 VDC), isolated power input and can operate under wide temperature (-25 °C ~ +75 °C). To simplify installation and maintenance of I/O modules, it provides many useful features, such as: hot swap allowed, auto configuration, LED indicators for fault detection, dual watchdog to keep alive, programmable power on and safe values for safety.

The unit supports more than 30 I/O modules including analog input/output, digital input/output, counter, frequency I/O modules. We provide various software development kits (SDK) and demos, such as DLL, ActiveX, Labview driver, InduSoft driver, Linux driver, OPC server, etc. The I-87K series I/O modules plugged in the ET-87Pn can be easily integrated into variant software system.

## Features

- Two Ethernet Ports for Daisy-Chain Topology
- I/O Module Hot Swap
- Auto Configuration
- LED Indicators for Fault Detection
- Push Buttons to Configure IP Address
- DCON Protocol
- 4/8 I/O Slots for I-87K Modules
- Operating Temperature: -25 ~ +75 °C

## Applications



Daisy-Chain Ethernet Cabling

## Specifications

Interface Type: Ethernet		
Port	RJ45*2 10/100Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)	
Cabling	Daisy-Chain Ethernet Cabling	
Isolation	3000 VDC	
ESD Protection	+/- 4K Contact Discharge and +/- 8K Air Discharge	
Communication Protocol	DCON Protocol (ASCII format)	
LED Indicators		
Power	Yes	
System Ready	Yes	
Auto configuration	Yes	
Slot Status	Yes	
IP Address	Yes (with push buttons to configure IP address)	
I/O Expansion Slots		
I/O Module Hot Swap	Yes	
Auto Configuration	Yes	
Support Module Type	High profile I-87K module only	
	Slots	
ET-87P4	4	
ET-87P8	8	
Dimensions (W x H x D)		
ET-87P4	188 mm x 132 mm x 111 mm	
ET-87P8	312 mm x 132mm x 111 mm	
Power		
Input Range	10 ~ 30 VDC (non-regulated)	
Redundant Input	Yes	
Reverse polarity protection	Yes	
Isolation	1000 VDC	
Frame Ground	Yes	
	Consumption	Power Board Driving
ET-87P4	2 W	30 W
ET-87P8	2.4 W	30 W
Environment		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-30 ~ +75 °C	
Humidity	5 ~ 95%, Non-condensing	

## Ordering information

ET-87P4 CR	4 slots I/O Expansion Unit (RoHS)
ET-87P8 CR	8 slots I/O Expansion Unit (RoHS)