



Highlight Information

- Two Ethernet Ports for Daisy-Chain Topology
- LAN Bypass Feature
- Hot Swap Allowed
- 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

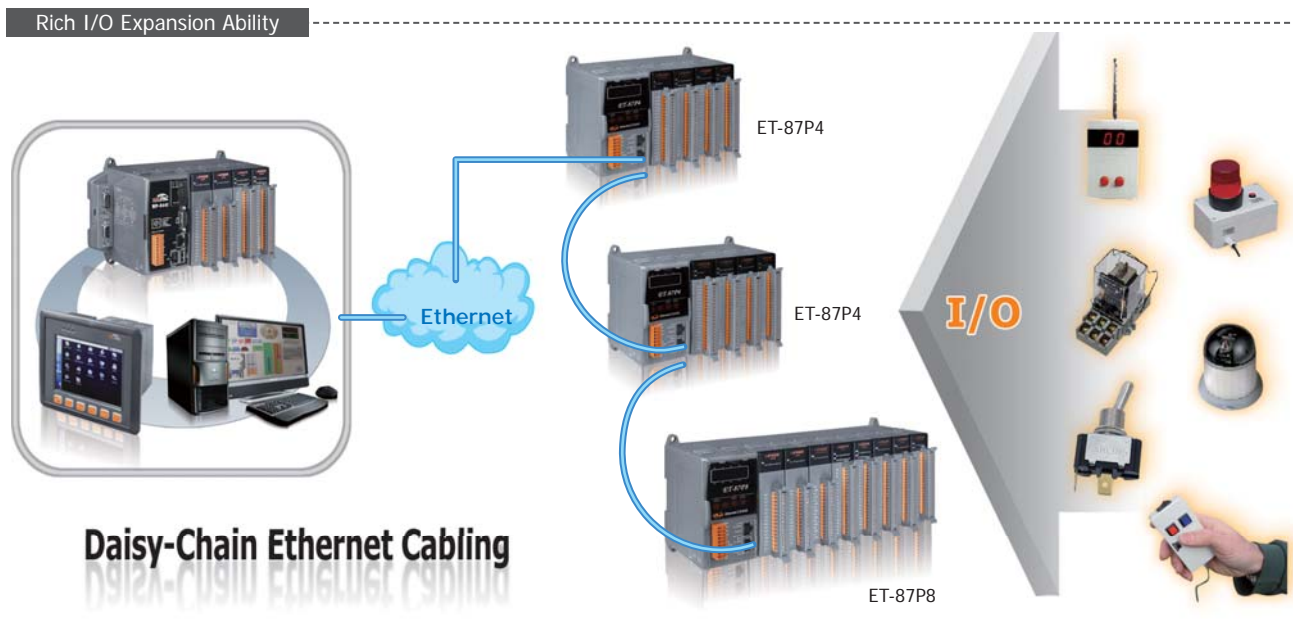
Introduction

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. Users 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 ~ +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.

There are more than 30 I/O modules supported with the unit, 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.

Applications



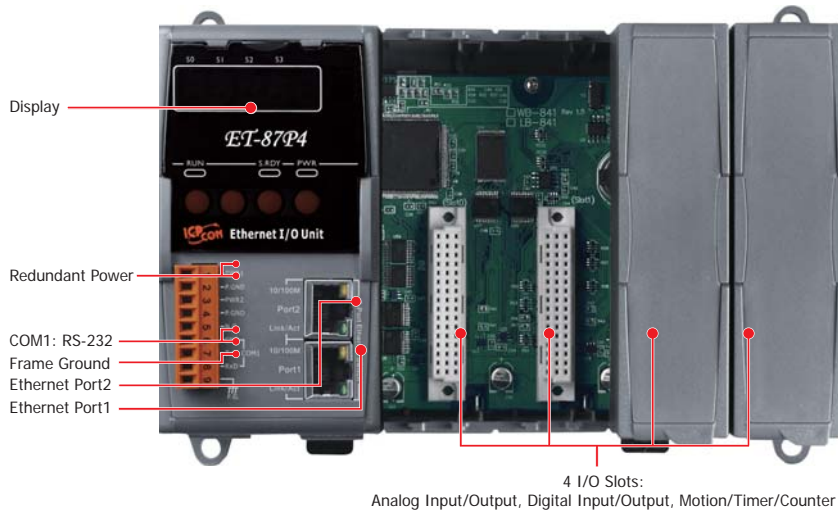
ET-87P4/87P8

Specifications

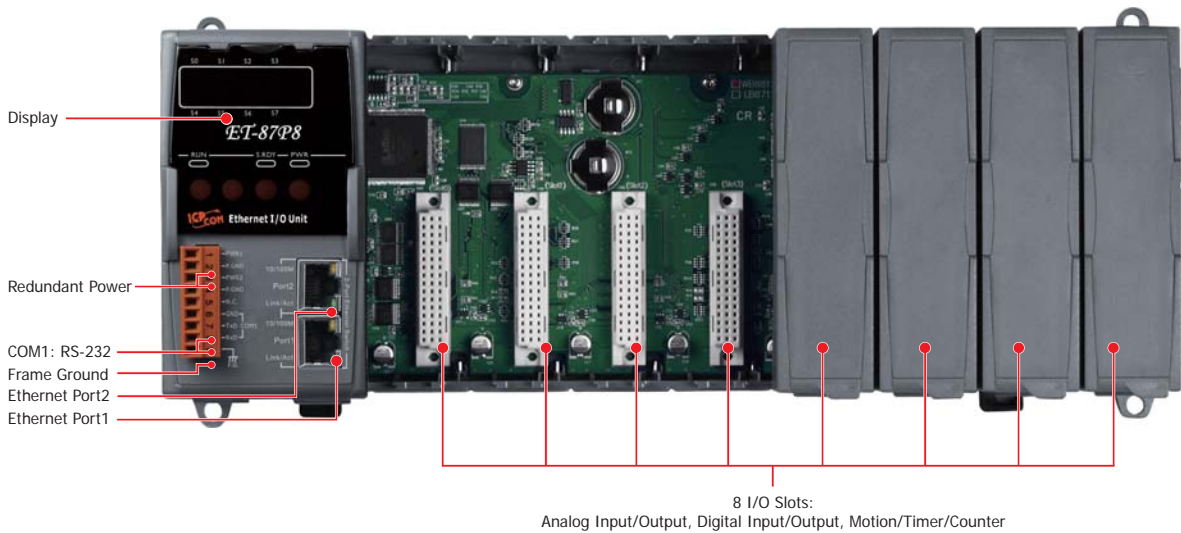
Models	ET-87P4	ET-87P8
Interface Type: Ethernet		
Port	RJ-45 × 2 10/100Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)	
Cabling	Daisy-Chain Ethernet Cabling	
Isolation	1500 V _{DC}	
ESD Protection	+/- 4 K Contact Discharge and +/- 8 K Air Discharge	
Communication Protocol	DCON Protocol (ASCII format)	
LED Display/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		
Hot Swap	Yes	
Auto Configuration	Yes	
Support Module Type	High profile I-87K module only	
Slots Numbers	4	8
Mechanical		
Dimensions (W x H x D)	188 mm x 132 mm x 111 mm	312 mm x 132 mm x 111 mm
Environmental		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-30 ~ +80 °C	
Ambient Relative Humidity	10 ~ 90% RH (non-condensing)	
Power		
Input Range	+10 ~ +30 V _{DC}	
Redundant Input	Yes	
Reverse Polarity Protection	Yes	
Isolation	1000 V _{DC}	
Frame Ground	Yes	
Consumption	6 W	
Output Capacity	5 W supply to CPU and Backplane 25 W supply to I/O expansion slots Total: 30 W	

Appearance

ET-87P4

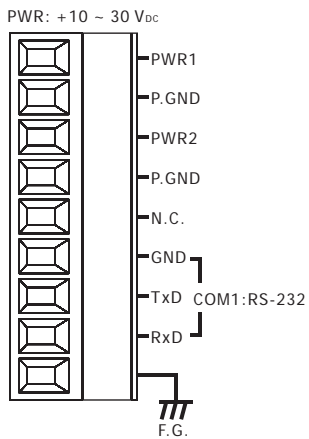


ET-87P8



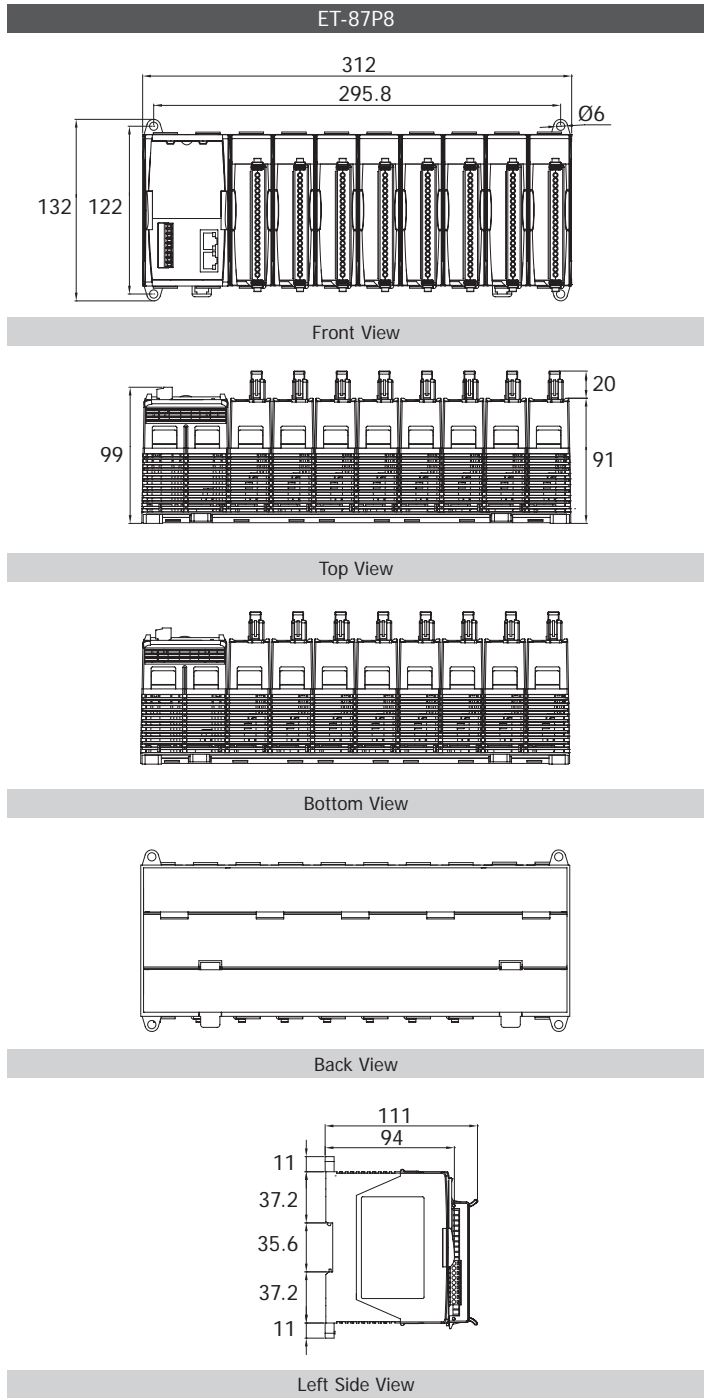
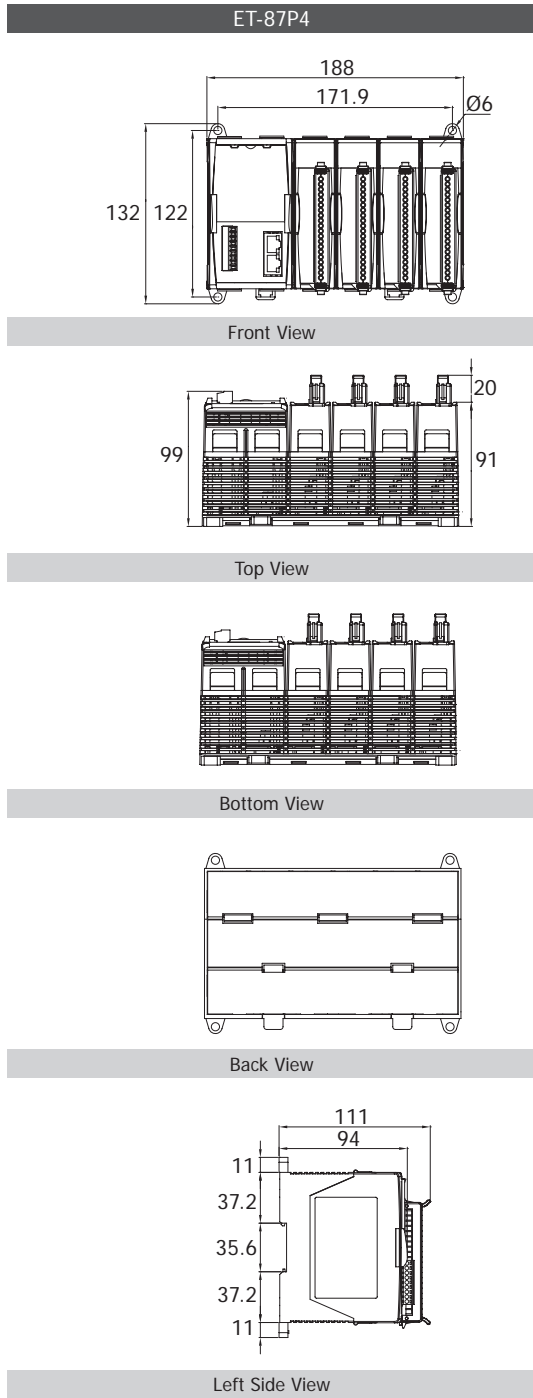
Pin Assignments

ET-87P4/ET-87P8 Terminal Block



ET-87P4/87P8

Dimensions (Unit: mm)



Ordering Information

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

Accessories

DP-660	24 V _{DC} /2.5 A, 60 W and 5 V _{DC} /0.5 A, 2.5 W Power Supply with DIN-Rail Mounting
DP-665	24 V _{DC} /2.7 A, 65 W Power Supply with DIN-Rail Mounting
DP-1200	24 V _{DC} /5.0 A, 120 W Power Supply with DIN-Rail Mounting
MDR-20-24	24 V _{DC} /1.0 A, 24 W Power Supply with DIN-Rail Mounting
I-7560 CR	USB to RS-232 Converter (RoHS)