

# IA-3157-EP

24-ch Power Relay  
1-ch Voltage Monitor  
Ethernet Controlled Module

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## Introduction

The IA-3157-E is a 24 channels TCP/IP/Ethernet Power Relay module with an Isolated Voltage Monitor Input.

This relay controller is 10/100base-T Ethernet TCP/IP Controlled, with an optional Serial expansion port that may be used as a local expansion port or a Serial Controlling port.

The IA-3157-E Relays in use can easily handle up to 16Amp @ 277VAC. Their Contacts are internally protected by Voltage Suppressors that limits the voltage, usually generated by Inductive loads, avoiding the EMI/RFI noise and increasing the relays Electrical Lifetime.

Isolated Digital Input channel is available to monitor the Line Voltage in case of using an 'H' suffix device or checking the DC power source or any Voltage source in case of using a non-suffix named board.

An extra Watchdog circuit has been implemented into the card in order to handle massive noisy incidents that might put the on-chip watchdog out of work.

The Software support package for the new IA-3157-E controller includes Microsoft Visual Studio DLL, Labview Driver, software examples, and software utilities, designed to operate the device and configure it if needed. The software utility includes a command line, enabling the user to evaluate and get familiar with the system and the commands list.

## Features

- TCP/IP Ethernet Controlled
- 24-ch, Power Relays
- Isolated Voltage Monitor
- Webpage & AT cmd. configured
- Voltage Suppressors on relay contacts
- Extra Watchdog protection
- Visual Studio & Labview Support
- CE & FCC Approved ROHS Compliant
- DIN-Rail & Mount ready

## Specifications

Power Relays	
Channels	24
Type	SPDT, Form C
Contact Rating	16 Amp @ 24VDC
	16 Amp @ 250VAC
Max.Switch Power	4000VA
Contact Resistance	100mΩ Max.
Breakdown Voltage	Coil Contact: 5000VAC
	Contacts: 1000VAC
Operation Time	15mS
Release Time	8mS
Endurance	10 <sup>7</sup>
Electrical Endur.	10 <sup>5</sup>
Isolated Voltage Monitor	
Channels	1
Isolation Voltage	2500V rms
Voltage Range	No Suffix: 5V-60VDC
	H Suffix: 85V-277VAC
Communication	
Main Control Port	Ethernet TCP/IP
	10/100base-T
	DHCP/Static IP modes
	Webpage or AT Config.
Secondary Port	RS-232
General	
Power Source	24VDC
Current Consumption	0.7Amp
Operation Temp.	0 to 60° C.
Module Size	265x115x45mm
Weight	450gr