# IA-3171-U2i-P

64 channels,
Power Relay Controller
USB & RS-232 Controlled

**iA Intelligent Appliance**
*For Smart Solutions...*



## Features

- 64-ch Relay Board
- 7Amp @ 277VAC per Channel
- Short & Easy Wiring
- Built in Buffered Local Expansion
- Thousands of Relays may be operated by a single communication port
- Synchronized Multi-Board operation
- Built-in Second Watchdog for system protection
- Isolated USB port for best Host Isolation
- Up to BR 230K for fast communication
- Series-3000 Software Compatibility
- CE & FCC Approved, ROHS compatible
- Pluggable Terminal Blocks
- DIN-Rail/Panel mounting ready

## Introduction

The IA-3171-U2i-P is an Industrial Grade USB and RS-232 Relay Controller, CE and FCC approved, and ROHS compliant.

This reliable module is designed to operate on the Factory Floor in a harsh, noisy, EMI/RFI Environment.

The USB port is Optically Isolated, to ensure the Host Computer Isolation from the Factory Floor.

The IA-3171-U2i-P includes 64 High Voltage Relays that are independently wired.
For a bussed relay solution kindly refer to the IA-3172-U2i relay controller.

Voltage suppressors are installed on each relay to keep the voltage to a working level and prevent EMI-RFI noise. This added protection significantly extend relay life.

A built-in buffered Local expansion facility enables the operation of thousands of relays via a single communication port, supported by Global and Synchronizing commands.

The controller default BR is 19200, while supporting up to BR 115200 on multi-drop operation.

Software drivers, Open Source code examples, configuration and operation utilities help a fast and easy product implementation.

## Specifications

### Relays

| | |
|---|---|
| Channels | 64 |
| Type | SPST |
| Contact Rating | UL: 7Amp @ 277VAC |
| | VDE: 7Amp @ 250VAC |
| | 7Amp @ 30VDC |
| Dialectric Strength | 4000VAC |
| Mechanical Endur. | 5 x 10^6 |
| Contact Protection | Voltage Suppressors |

### Communication

**USB** Type

| | |
|---|---|
| USB Type | 2.0 |
| Isolation Level | 3750 Volts RMS |
| Max BR | 230400 |
| Default BR | 19200 |

| | |
|---|---|
| RS-232 Type | C |
| Max BR | 115200 |
| Default BR | 19200 |
| Daisy-Chain | Built-In |

### General

| | |
|---|---|
| Power Supply | 0.5Amp @ 24VDC |
| Module Size | 335x135x35 mm |
| Weight | 700gr |

## Ordering Information

| | |
|---|---|
| IA-3171-U2i-P | 64 channels, Pluggable Relay Controller USB & RS-232 Controlled – Independently wired |
| IA-3172-U2i-P | 64 channels, Pluggable Relay Controller USB & RS-232 Controlled – Grouped and Bussed |

CE FC RoHS COMPLIANT