IA-3178-U2i

32-ch Relay
USB or RS-232 Controlled
Multi-Drop Series

Intelligent Appliance

FC CE

Features

- 32-ch, 10 Amp Power Relays
- SPDT / DPDT 32/16 Selectable
- Isolated USB Port
- Isolated Voltage Monitor Input
- 2 Way Watchdog Protection
- Multi-Drop operation ready
- Status Led indicators on all I/Os
- Open Source code samples
- Setting and Operating Utility
- API Software Library
- Unique ID
- DIN-Rail mounting ready

Introduction

The IA-3178-U2i is a 32 Channels Industrial Relay Controller, with 32 Power Relays and an Isolated, High Voltage Line Monitor, designed and produced by Intelligent-Appliance.

Each relay has a Contact Rating of over 10Amp @ 30VDC, and over 10Amp @ 240VAC. Each relay is of SPDT kind, one Change-Over, while it may be used as a DPDT, two Change-Over, set by software and internal logic.

The IA-3178-U2i includes an Isolated USB port and two Watchdog circuits. The USB port isolation task is avoiding Ground Loops and EMI/RFI Interference, while the second Watchdog task is better defined and secured treatment of PC and Communication failures.

The IA-3178-U2i is being widely supported by Microsoft Studio Class Library, by National-Instruments Labview Drivers and by various open code software examples.

The IA-3178-U2i can be controlled by a USB port or by an RS-232 port, while it can be easily and transparently chained by other Intelligent-Appliance Series-3000 products.

Ordering Information:

- **IA-3178-U2i**
  32-ch, 10 Amp Power Relay Module,
  USB or RS-232 Multi-Drop Series, USB Cable Include.

- **IA-3178H-U2i**
  32-ch, 10 Amp Power Relay Module - High Voltage Range Input
  USB or RS-232 Multi-Drop Series, USB Cable Include.

Specifications

32 Relays:

Contact current	10 Amp @ 30 VDC
	10 Amp @ 240 VAC
Contact method	SPDT, form C

Isolated Digital Inputs:

Channels	1
Voltage Range	12V to 30VDC
	90V to 250VAC (IA-3178H-U2i)
Isolation	Optic

Communication:

Main COM	USB or RS-232
Expansion COM	RS-232
Default BR	19200bps
COM Rate	1200-115000bps
COM input	USB or DB9 Female
COM output	DB9 Male

Wiring:

Host/Module cable:	USB or DB9 M/F pin-to-pin
Module/Module cable:	DB9 M/F pin-to-pin
	Up to 15m between each module.

General:

Power supply:	24VDC, 0.8Amp
Module size:	345x115x45 mm
Weight:	794 gr

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