



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com

IP-Unidig-O

IndustryPack Module With 24 Optically Isolated I/O Lines

Application Information

The IP-Unidig-O IndustryPack provides up to 24 optically isolated inputs and up to 24 optically isolated outputs. Three variants options are available, selectable by order options:

- IP-Unidig-O-24IO has 24 lines which can be used for either inputs or outputs
- IP-Unidig-O-12I12O has 12 dedicated inputs and 12 dedicated outputs
- IP-Unidig-O-24I has 24 dedicated inputs.

The IP-Unidig-O-24IO, and the IP-Unidig-O-24I are Type II IndustryPacks with components mounted on both sides of the board. The module is built with optical couplers which have an isolation voltage of 2500 volts and a common mode transient immunity of greater than 1000 volts/microsecond. Both transmitters and receivers are double buffered and can operate at up to 1 Mbit/second.

The transmitters have an open collector output with a 10 kOhm pull up resistor standard. A user provided external power supply of 5 to 24 volts powers the user's equipment and the IndustryPack's isolated transmitters. The use of this power supply assures full isolation between the user's system and the system containing the IndustryPack.

Writing a one to any output turns off the opto isolator, allowing the pull up resistor to set the line to a passive logic high. Writing a zero to any output turns on the opto isolator, driving the line to a logic low. All output lines may be enabled or disabled by writing a bit in the control register.

The industryPack's double buffering capability makes it possible to update many inputs and outputs on several IPs simultaneously. A user provided clock common to all the IndustryPacks is used to latch the input and output registers. The IP-Unidig-T is ideally suited to provide this clock, though any source with sufficient drive capabilities may be used. Double buffering is controlled by a bit in the Control Register.

Isolated input voltages are from 2.5 to 20 volts. Reset disables all output transmitters and disables double buffering.

A subroutine library and Windows NT drivers are available.

Features

- 24 optoisolated I/O lines on a single-wide IndustryPack
- 64 mA 5 to 24 V output operation
- 2.5 to 20 V input operation
- Available in three configurations
- Double-buffered input and output

Specifications

Form Factor	-O-24I, -O-24IO: Single-wide Type I IndustryPack -O-12I12O: Single-wide Type II IndustryPack
IndustryPack Interface	Complies with ANSI/VITA-4
Interface Speed	8 MHz
Wait States	None
Number of Digital Lines	-O-24IO: 24 individually programmable and input or output -O-12I12O: 12 input, 12 output -O-24I: 24 inputs
Input Driver	0 to 20 V common mode, 500 uA minimum
Output Driver	Open collector transistor with 10 kOhm pullup 64 mA @ 5 to 24 V
ESD Protection	None
Interrupts	None
Isolation Voltage	100 V minimum. Also subject to carrier board and other considerations
Dimensions	1.8 inches x 3.9 inches
Weight	0.06 kg (0.1 lb)
Power Requirements (no load)	+5 VDC, 510 mA typ
Environmental	Operating temperature: -0 to +70°C Humidity: 5 to 95% non-condensing Storage: -40 to +85°C

Ordering Information

IP-UNIDIG-O-24IO	IndustryPack with 24 optoisolated I/O lines, each programmable direction
IP-UNIDIG-O-12I12O	IndustryPack with 24 optoisolated I/O lines, 12 input, 12 output
IP-UNIDIG-O-24I	IndustryPack with 24 optoisolated input lines
EKIP50-UNIDIG12	Engineering kit for IP-Unidig-O-24IO, IP-Unidig-O-12I12O if mounted on a carrier with 50-pin ribbon cable header front panel I/O connectors. Contains: Six foot 50 conductor ribbon cable (C-IP50F-IP50F-6) Fifty screw terminal block with ribbon header (IP-TERM) <i>(More items as below)</i>
EKHD50-UNIDIG12	Engineering kit for IP-Unidig-O-24IO, IP-Unidig-O-12I12O if mounted on a carrier with HD50 front panel I/O connectors. Contains: Six foot cable HD50 male to HD50 male (C-HD50M-HD50M) Fifty screw terminal block with HD50 female (IP-TERM-HD50) <i>(More items as below)</i>
EKCM50-UNIDIG12	Engineering kit for IP-Unidig-O-24IO, IP-Unidig-O-12I12O if mounted on a carrier with Champ50 front panel I/O connectors. Contains: Six foot Champ50 male to HD50 male cable (C-HD50M-CM50M) Fifty screw terminal block with HD50 female (IP-TERM-HD50) <i>(More items as below)</i>
All IP-UNIDIG-O-24IO and IP-UNIDIG-O-12I12O engineering kits include:	Printed hardware user manual Bill of materials Board schematics Assembly diagram Motorola: MMPQ2369 data sheet Motorola: 2N2369 data sheet Seimens: SFH6316 data sheet
EKIP50-UNIDIG06	Engineering kit for IP-Unidig-O-24I if mounted on a carrier with 50-pin ribbon cable header front panel I/O connectors. Contains: Six foot 50 conductor ribbon cable (C-IP50F-IP50F-6) Fifty screw terminal block with ribbon header (IP-TERM) <i>(More items as below)</i>
EKHD50-UNIDIG06	Engineering kit for IP-Unidig-O-24I if mounted on a carrier with HD50 front panel I/O connectors. Contains: Six foot cable HD50 male to HD50 male (C-HD50M-HD50M) Fifty screw terminal block with HD50 female (IP-TERM-HD50) <i>(More items as below)</i>
EKCM50-UNIDIG06	Engineering kit for IP-Unidig-O-24I if mounted on a carrier with Champ50 front panel I/O connectors. Contains: Six foot Champ50 male to HD50 male cable (C-HD50M-CM50M) Fifty screw terminal block with HD50 female (IP-TERM-HD50) <i>(More items as below)</i>
All IP-UNIDIG-O-24I engineering kits include:	Printed hardware user manual Bill of materials Board schematics Assembly diagram Seimens: SFH6316 data sheet
QP-UNIDIG-DIG	QuickPack subroutine library for IP-Unidig-O. Contains: Printed software user manual Floppy Disk containing: C source code Release notes
ND-SDPACK	Windows NT 4.0 SDpacK IndustryPack driver CDROM

Associated Products

IP-UNIDIG-IO-24IO	IndustryPack with 24 optoisolated I/O lines with interrupts, each programmable direction
IP-UNIDIG-IO-12I12O	IndustryPack with 24 optoisolated I/O lines, with interrupts, 12 input, 12 output
IP-UNIDIG-IO-24I	IndustryPack with 24 optoisolated input lines, with interrupts
C-IP50M-IP50M-3	Three foot 50 conductor ribbon cable
C-IP50M-IP50M-6	Six foot 50 conductor ribbon cable
C-CM50M-IP50M	Three foot Champ50 male to ribbon cable
C-HD50M-HD50M	Six foot HD50 male to HD50 male cable
C-HD50M-CM50M	Six foot Champ50 male to HD50 male cable
IP-TERM	50 screw terminal block with ribbon cable connector
IP-TERM-HD50	50 screw terminal block with HD50 female connector



8371C Central Avenue, Newark, CA 94560
(510) 742-2500 • sales.mio@sbs.com • www.sbs.com



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com