ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

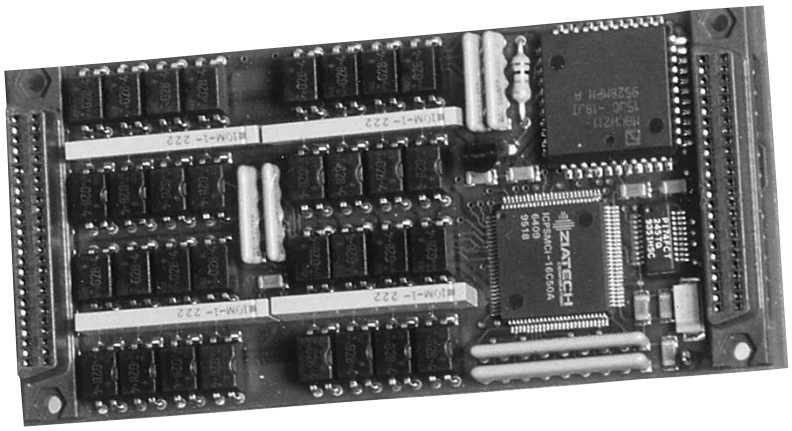
- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Acromag / Xembedded / Xycom XIP-2440-001* at our website: *Click HERE*

XIP-2440 Isolated Digital Input



FEATURES

- 32 port-isolated input channels
- Interrupt support for each channel
- High speed processing (0 wait states)
- Programmable polarity of event interrupts (low-to-high or high-to-low transitions)
- Programmable debounce
- Input hysteresis
- Reverse polarity protection
- Software configuration (no jumpers or switches)

Three input ranges (different models):

- XIP-2440-001: ±4 to ±18V DC or AC peak
- XIP-2440-002: ±16 to ±40V DC or AC peak
- XIP-2440-003: ±38 to ±60V DC or AC peak

BENEFITS

- Software configuration allows on-the-fly changes without removing modules.
- Pins are compatible with XIP-2445 output module for loopback monitoring.
- Loopback monitoring enables self-test and fault diagnostics to detect open switches or shorts.

XIP-2440 Industrial I/O Pack (IP) modules provide 32 optically isolated inputs to safely monitor a wide range of digital input voltage levels.

Isolation protects your computer system from noise, transient signals, and field wiring faults. The inputs are grouped into four 8-channel ports. Ports are isolated from the logic and each other.

Change-of-state interrupts are supported using paired channels. Debounce eliminates spurious interrupts from noise and switching transients for error-free edge detection.

Closed-loop monitoring of critical control signals is easily accomplished using the XIP-2440 in conjunction with Xycom Automation's XIP-2445 digital output module.

XYCOM™ AUTOMATION
Open the Possibilities℠

DS-72440(A). 5-00.

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0 to 70°C	-55 to 125°C
Humidity	5% to 95% RH, noncondensing	5% to 95% RH, noncondensing
Isolation	Ports isolated via optocoupler from each other and IP bus. 250V AC (354V DC) continuous.	
RFI resistance	No digital upsets for field strengths up to 10V/m per SAMA PMC 33.1	
EMI resistance	No digital upsets under the influence of EMI from solenoids or motors	
ESD protection	I/O lines are protected from ESD voltage to ±4KV, typical	

Hardware

Power	▪ +5V (±5%): 160mA maximum ▪ ±12V (±5%): 0mA (not used)
Input channels	Thirty-two optically isolated inputs
Bipolar input voltage range	• XIP-2440-001: ±4 to ±18V DC or AC peak • XIP-2440-002: ±16 to ±40V DC or AC peak • XIP-2440-003: ±38 to ±60V DC or AC peak
Input threshold	• XIP-2440-001: ±2.3V typical • XIP-2440-002: ±8V typical • XIP-2440-003: ±16V typical
Input hysteresis	80mV, typical
Input current	$\frac{\text{Signal Level} - 1.5\text{V}}{\text{R}}$, where R = • XIP-2440-001: 2.2K ohms • XIP-2440-002: 12Kohms • XIP-2440-003: 27K ohms
Input debounce	Selectable for 3 to 4mS, 48 to 64µS, 0.75 to 1mS, or 6 to 8mS
Maximum throughput rate	• One channel: 28KHz (35.25µS/channel) • Thirty-two channels: 28KHz (36µS/32 channels)
Interrupts	Thirty-two channels configurable as follows: • High-to-low transitions • Low-to-high transitions • Change-of-state (two inputs required)

IP Compliance (ANSI/VITA 4)

- Meets IP specifications per ANSI/VITA 4-1995
- IP data transfer cycle types supported: input/output (IOSel*), ID read (IDSel*), interrupt select (INTSel*)
- Access times (8MHz clock): 0 wait states (250ns cycle)
- Updates: requires four 8-bit reads to update all channels

I/O Pin Connections

Pin	Description	Pin	Description	Pin	Description
01	IN00	18	IN14	35	NC
02	IN01	19	IN15	36	IN28
03	IN02	20	BCOM	37	IN29
04	IN03	21	IN16	38	IN30
05	NC	22	IN17	39	IN31
06	IN04	23	IN18	40	DCOM
07	IN05	24	IN19	41	No connection
08	IN06	25	NC	42	No connection
09	IN07	26	IN20	43	No connection
10	ACOM	27	IN21	44	No connection
11	IN08	28	IN22	45	No connection
12	IN09	29	IN23	46	No connection
13	IN10	30	CCOM	47	No connection
14	IN11	31	IN24	48	No connection
15	NC	32	IN25	49	No connection
16	IN12	33	IN26	50	No connection
17	IN13	34	IN27		

ORDERING INFORMATION

Order Number	Description
XIP-2440-001	Digital input, ±4 to ±18V input range
XIP-2440-002	Digital input, ±16 to ±40V input range
XIP-2440-003	Digital input, ±38 to ±60V input range

Xycom Automation, Inc.
734-429-4971 • Fax: 734-429-1010
http://www.xycom.com

Canada Sales: 905-607-3400
Northern Europe Sales: +44-1604-790-767
Southern Europe Sales: +39-011-770-53-11

XYCOM™ AUTOMATION
Open the Possibilities℠

© 2000 Xycom Automation, Inc. All rights reserved. Printed in US. All brand or product names are the property of their respective owners.
Specifications may change without notice.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP