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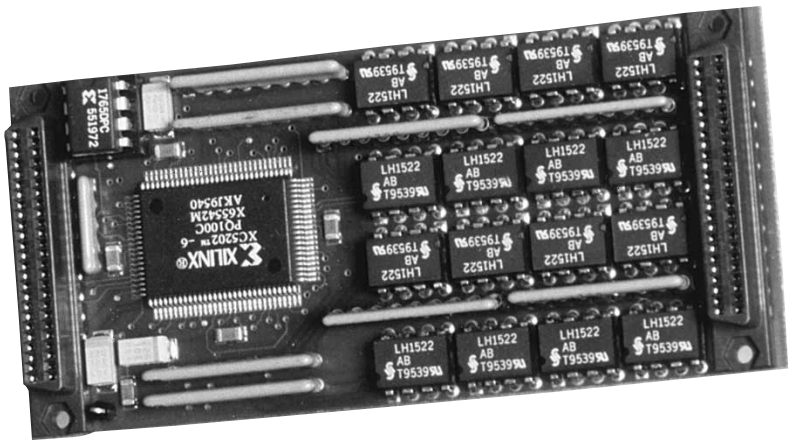
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Find the *Acromag / Xembedded / Xycom XIP-2445-000* at our website: *Click HERE*

XIP-2445 Isolated Digital Output



FEATURES

- Thirty-two bipolar solid state relays
- High/low-side switch configuration
- Port-isolated output channels
- ±60V AC/DC voltage range
- High speed processing (0 wait states)
- TTL-compatible
- Failsafe power-up and system reset
- Output readback function
- Socketed pull-up resistors for low-side switching applications
- Current-limited solid-state relays

BENEFITS

- Unique ground reference points for each port permits AC and DC switching on one module.
- Pin are compatible with XIP-2440 input module for loopback monitoring.

XIP-2445 modules provide thirty-two isolated solid-state relay outputs to safely control discrete devices.

A major XIP-2445 advantage is flexibility. The module supports wide range bipolar (AC or DC) voltage switching. Each port can be configured for high or low-side switches. The outputs are TTL-compatible when configured as low-side switches using on-board socketed pull-up resistors.

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

Readback buffers simplify output status monitoring. And for easy closed-loop monitoring of critical control signals, use the XIP-2445 with an XIP-2440 input module.

XYCOM™ AUTOMATION
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DS-72445(A). 5-00.

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0 to 70°C	-40 to 125°C
Humidity	5% to 95% RH, noncondensing	5% to 95% RH, noncondensing
Isolation	Individual ports optically isolated from each other via solid-state relays . Field outputs of each port share a common connection. Logic and field lines isolated from each other to 250V AC (354V DC) continuous. Withstands 1250V AC for one minute.	
RFI resistance	No digital upsets occur 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%) all outputs on: 400mA, maximum ▪ ±12V (±5%): 0mA (not used)
Output channel configuration	Thirty-two isolated solid-state relays support AC or DC (high/low-side switching) operation
Relays	SPST-NO, Form A contacts
Voltage range	0 to ±60V DC or peak AC
TTL compatibility	Sinks 27mA @ 0.4V maximum. Sources 500µA @ 2.4V minimum with 4.7K ohms pull-up to 5V supply.
Output ON current range	140mA maximum continuous (up to 1A total per port)
Output ON resistance	15 ohms, maximum (25°C)
Turn ON time	2mS, maximum
Turn OFF time	2mS, maximum
Reset condition	All output solid-state relays off
Output pull-up resistors	4.7K ohms, socketed
Maximum throughput rate	• One channel: 500Hz (2mS/channel) • Thirty-two channels: 500Hz (2mS/32 channels)

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*)
- Access times (8MHz clock): 0 wait states (250ns cycle)
- Updates: requires four 8-bit writes to update all channels

ORDERING INFORMATION

Order Number	Description
XIP-2445-000	Digital output module

I/O Pin Connections

Pin	Description	Pin	Description	Pin	Description
01	OD00	18	OD14	35	User supply 3
02	OD01	19	OD15	36	OD28
03	OD02	20	User com out 1	37	OD29
04	OD03	21	OD16	38	OD30
05	User supply 0	22	OD17	39	OD31
06	OD04	23	OD18	40	User com out 3
07	OD05	24	OD19	41	Not used
08	OD06	25	User supply 2	42	Not used
09	OD07	26	OD20	43	Not used
10	User com out 0	27	OD21	44	Not used
11	OD08	28	OD22	45	Not used
12	OD09	29	OD23	46	Not used
13	OD10	30	User com out 2	47	Not used
14	OD11	31	OD24	48	Not used
15	User supply 1	32	OD25	49	Not used
16	OD12	33	OD26	50	Not used
17	OD13	34	OD27		

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