

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.

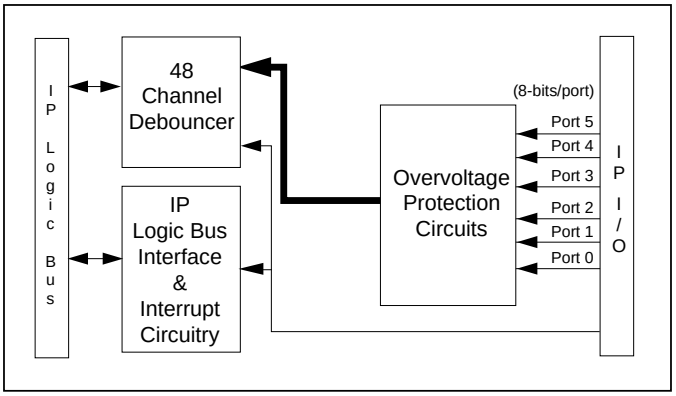
Find the *Curtiss-Wright / Systran DID48-68* at our website: ***Click HERE***

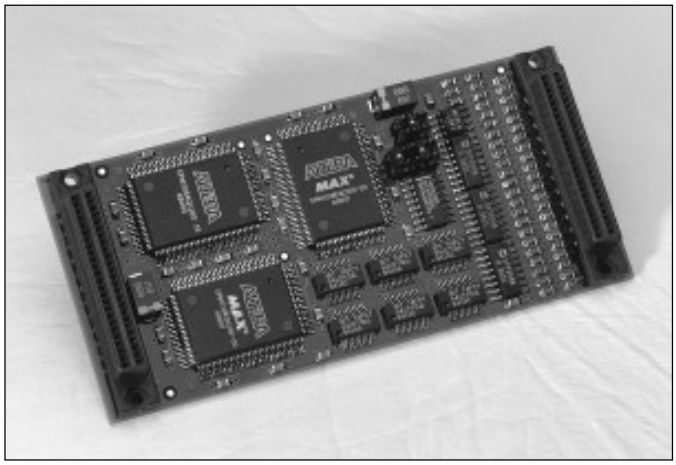
DID48 – 48-Channel, Debounced Discrete Input IP Module

For applications with a large number of noisy, switch and relay contact inputs, the DID48's contact debouncing capability and interrupt driven engine can improve CPU performance. Its modular design provides up to 240 discrete inputs through a single VME slot using the VMESC5 carrier or up to 288 inputs through a single PC slot using the ISASC6 carrier. The DID48 can also be mixed with other IP modules for a more customized, modular I/O system solution.

Application Features:

- Hardware debouncing eliminates the bounce and noise from switches and relay contacts to provide clean input signals.
- Eliminates all software required for algorithms needed to debounce inputs thus reducing the cost of systems.
- ±32 volts of input are protected against voltage-overloads. Using new technology, the DID48 is able to offer this protection and high-input density in a single IP module design.
- All 48 channels can generate interrupts—on change—thus creating more flexibility and event driven power.
- Four, user-selectable, debouncing time windows tailor interfacing to small-to-large chatter/noise sources.
- Per byte-lane disabling of hardware debouncing for direct, (clean) logic interfacing.
- Debouncer's sampling clock available for system-level synchronization.
- Simple Interrupt engine for signaling special on any input logic change on a per byte lane basis.





Specifications:

- Physical Dimensions: 1.800″ x 3.900″ x 0.303″ (45.72 mm x 99.06 mm x 7.70 mm)
- Weight: 1.076 oz. (30.49 grams)
- Hardware Compatibility: IndustryPack Logic Interface Specification, Rev. 0.7.1
- Mechanical/Electrical Interface: Singlewide IP module
- IP Transfer Types: (memory not supported)
  - I/O: 8- and 16-bit writes, 16-bit reads; No wait states, hold states supported
  - ID: 8-bit read only; No wait states, hold states supported
  - INT: 8-bit vector read only; No wait states, hold states supported
- Electrical Requirements: +5 Vdc @ 310 mA (typ. open inputs)
- Operating Temperature: 0° to +70° C (+32° to +158° F)
- Storage Temperature: -40° to +85° C (-40° to +185° F)
- Humidity (non-condensing): 5% to 95%
- Operating Vibration: 10 G's RMS, 10-55 Hz random
- Operating Shock: 50 G's max.
- Operating Altitude: 10,000 ft.
- MTBF: 3,748,126 hrs. per MIL-HDBK-217F
- Logic '1' or 'high' Input Voltage: +2.0 to +32.0 Vdc (current-limited high clamps to +5 V)
- Logic '0' or 'low' Input Voltage: -32.0 to +0.8 Vdc (current-limited low clamps to ground)
- Ports 0, 2, & 4 ≡ byte lane #0
- Ports 1, 3, & 5 ≡ byte lane #1
- Sampling Window Selection by Byte Lane (4 sampling periods): 256 µS, 1.024 mS, 4.096mS, and 16.386 mS
- Debouncing enabled/disabled by byte lane
- Sampling period synchronization pulse output; either byte lane
- Per-port Interrupt-on-change masks

Ordering Information:
BHAS-DID48: 48 Channel, Discrete Input IP Board

DID48 PIN ASSIGNMENTS

50	GND	45	Port 5 Bit 3	40	Port 4 Bit 0	35	Port 4 Bit 5	30	Port 3 Bit 2	25	Port 3 Bit 7	20	Port 2 Bit 4	15	Port 1 Bit 1	10	Port 1 Bit 6	5	Port 0 Bit 3
49	TSTCLK (jumper select)	44	Port 5 Bit 4	39	Port 4 Bit 1	34	Port 4 Bit 6	29	Port 3 Bit 3	24	Port 2 Bit 0	19	Port 2 Bit 5	14	Port 1 Bit 2	9	Port 1 Bit 7	4	Port 0 Bit 4
48	Port 5 Bit 0	43	Port 5 Bit 5	38	Port 4 Bit 2	33	Port 4 Bit 7	28	Port 3 Bit 4	23	Port 2 Bit 1	18	Port 2 Bit 6	13	Port 1 Bit 3	8	Port 0 Bit 0	3	Port 0 Bit 5
47	Port 5 Bit 1	42	Port 5 Bit 6	37	Port 4 Bit 3	32	Port 3 Bit 0	27	Port 3 Bit 5	22	Port 2 Bit 2	17	Port 2 Bit 7	12	Port 1 Bit 4	7	Port 0 Bit 1	2	Port 0 Bit 6
46	Port 5 Bit 2	41	Port 5 Bit 7	36	Port 4 Bit 4	31	Port 3 Bit 1	26	Port 3 Bit 6	21	Port 2 Bit 3	16	Port 1 Bit 0	11	Port 1 Bit 5	6	Port 0 Bit 2	1	Port 0 Bit 7

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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