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Model 3472

48-Bit Input Gate

INSTRUCTION MANUAL

January, 1988

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*** Special Option ***

Model 3472-S002

**** Special Option ****

Model 3472-S002

The Model 3472-S002 is a 3472-A1A modified for a switching threshold of 4.5 volts. It will handle a maximum input voltage of 12 volts.

*** Special Option ***

Model 3472-S003

48-Bit Input Gate

December, 1987

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*** Special Option ***

Model 3472-S003

48-Bit Input Gate

The Model 3472-S003 is the same as the Model 3472-A1A except the front panel connector has been modified with a 50 contact "D" connector.

MLH:rem(3000Ser.10)
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48-bit Input Gate

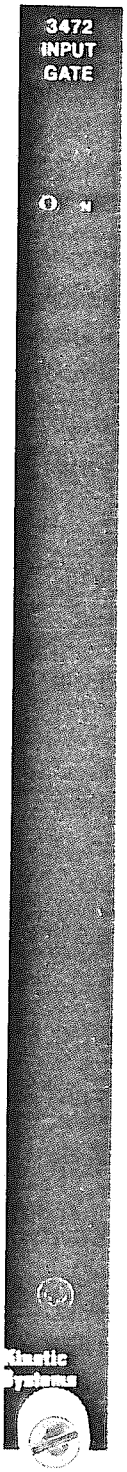
Provides 48 bits of TTL input monitoring **3472**

Features

- **48-bit input gate**
- **Options available for contact monitoring as well as TTL input levels**

Typical Applications

- **General-purpose data input applications**
- **Monitoring TTL signals**
- **Monitoring contact closures**



General Description *(Product specifications and descriptions subject to change without notice.)*

The 3472 is a single-width CAMAC module with an input gate for receiving 48 bits of data from external devices. The current states of the input devices is read via two read commands. The F(0)·A(0) command reads the states of one group of 24 bits (Group A), and the F(0)·A(1) command reads the states of the other 24 bits (Group B).

Input Circuits

Two input circuit options are provided: contact and TTL. The contact option monitors switch and relay contacts. Each bit has an input circuit with an open circuit voltage of 16 volts and a short circuit current of 3.5 milliamperes. The switching threshold is approximately +10 volts. The input is filtered with a one millisecond time constant to reduce noise. A closed contact in the external circuit is read as a "1". This provides contact "wetting" current as well as a high noise threshold. For the TTL option, input signals are TTL level with internal 2200 ohm pull-up resistors to +5 volts. The TTL input signals are low-true.

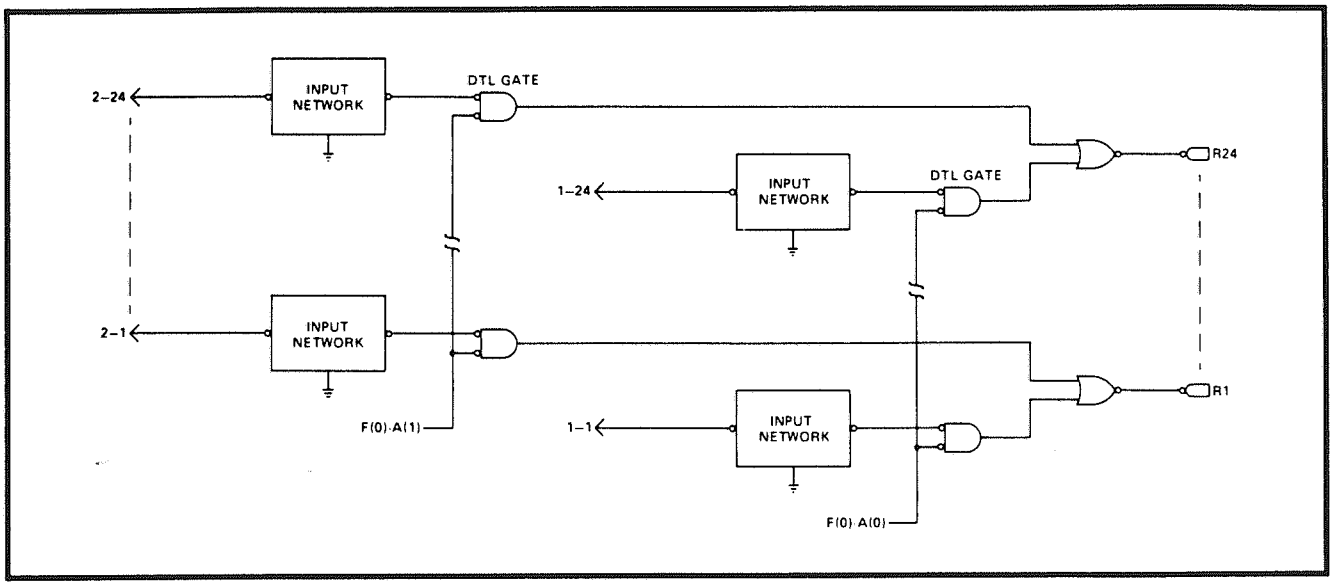
Connector Options

Two connector options are provided. All I/O signals are wired either to a 50-contact Amphenol ribbon connector on the front panel or to a 52-pin "2D" connector on the rear panel.

Function Codes

Command		Q	Action
F(0)·A(0)	RD1	1	Reads the state of the Group A data input.
F(0)·A(1)	RD1	1	Reads the state of the Group B data input.
F(1)·A(15)	RD2	1	Reads the module identifying number (3472 = 6620_8).
Note: X = 1 for all valid addressed commands.			

Simplified Block Diagram



Power Requirements

Model 3472-A1A, F1A

+6 volts:	350 mA
+24 volts:	170 mA
–24 volts:	30 mA

Model 3472-A1B, F1B

+6 volts:	600 mA

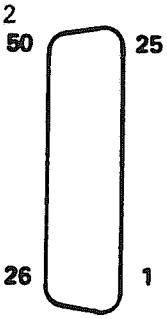
Ordering Information

Model 3472-A1A	Input Gate, contact input, 48 bits, 50S Amphenol Ribbon connector
Model 3472-A1B	Input Gate, TTL input, 48 bits, 50S Amphenol Ribbon connector
Model 3472-F1A	Input Gate, contact input, 48 bits, 52P "2D" connector
Model 3472-F1B	Input Gate, TTL input, 48 bits, 52P "2D" connector

Related Products

For Model	Mating Connector	I/O Cable (one end unterminated)
3472-A1A, A1B	5950-Z1A	5853-Axyz
3472-F1A, F1B	5942-Z1A	5850-Bxyz

Model 3472



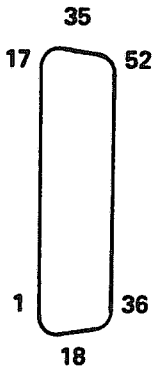
FACE VIEW

Socket/Wire List

50 SOCKET RIBBON CONN.

Model 3472-A1A/A1B

SOCKET NO.		SOCKET NO.	
50	Ground	25	Ground
49	Bit 2-24	24	Bit 1-24
48	2-23	23	1-23
47	2-22	22	1-22
46	2-21	21	1-21
45	2-20	20	1-20
44	2-19	19	1-19
43	2-18	18	1-18
42	2-17	17	1-17
41	2-16	16	1-16
40	2-15	15	1-15
39	2-14	14	1-14
38	2-13	13	1-13
37	2-12	12	1-12
36	2-11	11	1-11
35	2-10	10	1-10
34	2-9	9	1-9
33	2-8	8	1-8
32	2-7	7	1-7
31	2-6	6	1-6
30	2-5	5	1-5
29	2-4	4	1-4
28	2-3	3	1-3
27	2-2	2	1-2
26	2-1	1	1-1



FACE VIEW

Model 3472-F1A,-F1B

Pin/Wire List

52 PIN 'DD'

PIN NO.	
17	1-17
16	1-16
15	1-15
14	1-14
13	1-13
12	1-12
11	1-11
10	1-10
9	1-9
8	1-8
7	1-7
6	1-6
5	1-5
4	1-4
3	1-3
2	1-2
1	Bit 1-1

PIN NO.	
35	2-11
34	2-10
33	2-9
32	2-8
31	2-7
30	2-6
29	2-5
28	2-4
27	2-3
26	2-2
25	2-1
24	1-24
23	1-23
22	1-22
21	1-21
20	1-20
19	1-19
18	Bit 1-18

PIN NO.	
52	Ground
51	Ground
50	Ground
49	Ground
48	2-24
47	2-23
46	2-22
45	2-21
44	2-20
43	2-19
42	2-18
41	2-17
40	2-16
39	2-15
38	2-14
37	2-13
36	2-12

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