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ASCOR
INCORPORATED
A Giga-tronics Company

MODEL 3000-53/53A

General Purpose Switching Module Technical Manual

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Introduction

This User Guide provides a basic description of the Model 3000-53, General Purpose Switching module. Also included are installation and input connection procedures, programming information, service and maintenance information.

NOTE: The Model 3000-53 is supplied under two configuration:

Part No: 90400530 **Model 3000-53** (Motherboard SCH85006520, One Daughterboard P/N. SCH85006530).
Part No: 90400530-101 **Model 3000-53A** (Motherboard SCH85004180, Two Daughterboards P/N. SCH85004190).

General Description

This module contains ninety six (96) independently programmable form "C" SPDT Relays (Single Pole Double Throw Relays) for Model 3000-53 and one-hundred forty four (144) independently programmable form "C" SPDT Relays (Single Pole Double Throw Relays) for Model 3000-53A. The interface and mechanical constructions meet the specification of the VXIbus System Specification, Rev: 1.2 and 1.3.

Weight and Dimensions

	3000-53	**3000-53A**
Width	1.2 inches	2.4 inches
Height	10.317	10.37 inches
Depth	13.78 inches	13.78 inches
Weight	3 lb..	10 lb.

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Electrical Specification

Electrical:

Number of Connections:	420 Connections from 140 Form "C" Relays.
Frequency Range (-3dB)	>5 MHz
Maximum Switchable Current:	1.0A
Maximum Carry Current:	1.0 A on adjacent pins 1.5 A with 2 adjacent "open path" pins of isolation
Maximum Switchable Voltage:	220 Vdc / 220 Vac
Maximum Switching Power:	30 Wdc
Switching + Settling Time:	20 ms
Relay Life Expectancy:	1 M cycles
Closed Path Resistance:	<0.5 Ohms

Connector:

AMP 50 pin shrouded header, P/N 2-103166-3

Environmental Specification:

Operating Temperature:	10 to 45 degrees C.
Non-Operating Temperature:	-20 to +45 degrees C.
Relative Humidity:	30 to 90% RH non-condensing over operating temp.
Shock:	Designed to meet 15G, 11 ms.
Vibration:	Industrial Standards.
Cooling:	External Cooling Air Required.

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ASCOR Model 3000-53

Features (P/N. 90400530)

ASCOR's Model 3000-53 is a general purpose VXI Switch Module supporting
96 SPDT relays.

- *The unit is a C size VXI Module; fits into one slot of a VXI chassis.*
- *Voltage 220 VDC / 220 VAC*
- *Current 1.0 Amp*
- *Power 30 Watts DC*

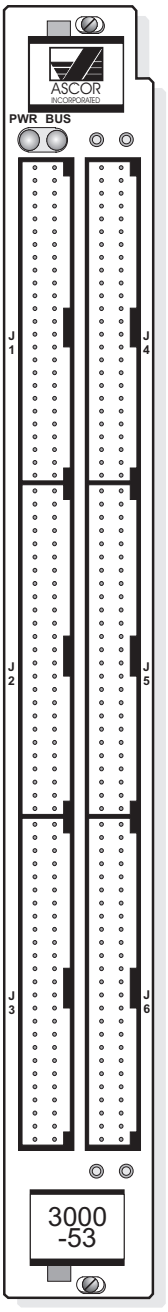
- *Internal Self Test capabilities.*
- *96 Independently Programmable form "C" SPDT Relays.*

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ASCOR Model 3000-53A

Features (P/N 90400530-001)



ASCOR's Model 3000-53A is a general purpose VXI Switch Module supporting 144 SPDT relays.

- *The unit is a C size VXI Module; fits into two slots of a VXI chassis.*
- *Voltage 220 VDC / 220 VAC*
- *Current 1.0 Amp*
- *Power 30 Watt DC*

- *Internal Self Test capabilities.*
- *144 independently programmable form "C" SPDT relays.*

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Register Map -16 Bit Configuration

A16 Registers

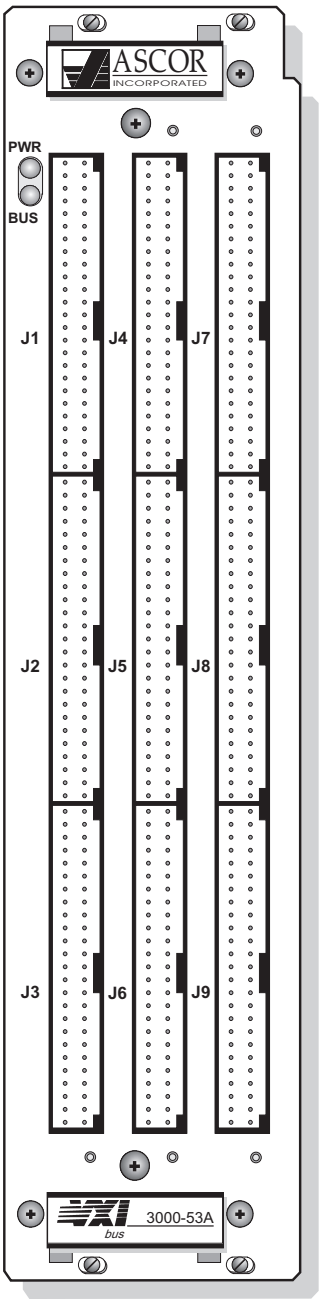
Offset	Value
00h	CFB5 C = Register Based, A16 / A24 Module FB5 = VXI Manufacturer ID, ASCOR
02h	7D09h 7 = A24 space requirement D09 = Model Number for this Module
04h	FFFCh Bit 0, reset, is supported. Toggling this bit will clear all relay registers. Care should be taken to only modify bit “0"
06h	(assigned by Resource Manager)

Control	Bit	
3Eh	0	Low true output enable to the coil driver IC’s.
	1	When low enables read back of relay coil state When high enables read back of data registers.
	2	Reserved
	3-15	Don’t Care

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Programming

The Model 3000-53 and 3000-53A is a VXI register based module. The switch paths are controlled via ***VXIMAX***™ which is the 16/32 bit data controller. The Model 3000-53 and 3000-53A can be programmed in 16 bit or 32 bit wide data. Through your VXI controller, write the data to the appropriate register as shown on the register map for the relay or relays in the register that is being closed. When the data bit is true, the relay chosen will be closed. The state of the relays in a register can be determined by reading the desired register. The data read back represents the value at the coil of the relay. This allows verification that the program register has correctly controlled the relay coil.



The following register maps are shown in the configurations: 16 bit mode and 32 bit mode. In each section, 16 bit and 32 bit, the register map is organized to show the relay designation in each register. It is followed by the register's functionality and the path connections to the front panel.

Note: See separate ASCOR programming guide for additional information.

For example:

To close relay K15 is to set the register to:

Register 8000h

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

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Register Map, 16 Bit

DESCRIPTION: 48 SPDT RELAYS, MOTHERBOARD #1
PCB NUMBER: 85006520 (For 3000-53)
PCB NUMBER: 85003220 (For 3000-53A)

ADDRESS OFFSET: 8000h

MSB **LSB**

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K16	K15	K14	K13	K12	K11	K10	K9	K8	K7	K6	K1	K4	K3	K2	K1

ADDRESS OFFSET: 8002h

MSB **LSB**

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K32	K31	K30	K29	K28	K27	K26	K25	K24	K23	K22	K21	K20	K19	K18	K17

ADDRESS OFFSET: 8004h

MSB **LSB**

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K48	K47	K46	K45	K44	K43	K42	K41	K40	K39	K38	K37	K36	K35	K34	K33

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Register Map, 32 Bit

DESCRIPTION: 48 SPDT RELAYS, MOTHERBOARD #1
PCB NUMBER: 85006520 (For 3000-53)
PCB NUMBER: 85003220 (For 3000-53A)

ADDRESS OFFSET: 8000h

LSB

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K16	K15	K14	K13	K12	K11	K10	K9	K8	K7	K6	K5	K4	K3	K2	K1

MSB

32	32	30	29	28	27	26	25	24	23	22	20	19	18	17	16
K32	K31	K30	K29	K28	K27	K26	K25	K24	K23	K22	K21	K20	K19	K18	K17

ADDRESS OFFSET: 8004h

LSB

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K48	K47	K46	K45	K44	K43	K42	K41	K40	K39	K38	K37	K36	K35	K34	K33

MSB

32	32	30	29	28	27	26	25	24	23	22	20	19	18	17	16
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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Register Description For 3000-53 and 3000-53A

REGISTER: 8000h		**MODE: 16/32 bit**
FUNCTION: Relays K1-16		
BIT	**CONNECTION**	**RELAY**
0	nc: J1-48 no: J1-50, c: J1-49	K1
1	nc: J1-45, no: J1-47, c: J1-46	K2
2	nc: J1-42, no: J1-44, c: J1-43	K3
3	nc: J1-39, no: J1-41, c: J1-40	K4
4	nc: J1-36, no: J1-38, c: J1-37	K5
5	nc: J1-33, no: J1-35, c: J1-34	K6
6	nc: J1-30, no: J1-32, c: J1-31	K7
7	nc: J1-27, no: J1-29, c: J1-28	K8
8	nc: J1-24, no: J1-26, c: J1-25	K9
9	nc: J1-21, no: J1-23, c: J1-22	K10
10	nc: J1-18, no: J1-20, c: J1-19	K11
11	nc: J1-15, no: J1-17, c: J1-16	K12
12	nc: J1-12, no: J1-14, c: J1-13	K13
13	nc: J1-9, no: J1-11, c: J1-10	K14
14	nc: J1- 6, no: J1-8, c: J1-7	K15
15	nc: J1- 3, no: J1-5, c: J1-4	K16

REGISTER: 8000h		**MODE: 32 bit, BITS 16-31**
REGISTER: 8002h		**MODE: 16 bit**
FUNCTION: K17-32		
BIT	**CONNECTION**	**RELAY**
0 (16)	nc: J2-48 no: J2-50, c: J2-49	K17
1 (17)	nc: J2-45, no: J2-47, c: J2-46	K18
2 (18)	nc: J2-42, no: J2-44, c: J2-43	K19
3 (19)	nc: J2-39, no: J2-41, c: J2-40	K20
4 (20)	nc: J2-36, no: J2-38, c: J2-37	K21
5 (21)	nc: J2-33, no: J2-35, c: J2-34	K22
6 (22)	nc: J2-30, no: J2-32, c: J2-31	K23
7 (23)	nc: J2-27, no: J2-29, c: J2-28	K24
8 (24)	nc: J2-24, no: J2-26, c: J2-25	K25
9 (25)	nc: J2-21, no: J2-23, c: J2-22	K26
10 (26)	nc: J2-18, no: J2-20, c: J2-19	K27
11 (27)	nc: J2-15, no: J2-17, c: J2-16	K28
12 (28)	nc: J2-12, no: J2-14, c: J2-13	K29
13 (29)	nc: J2-9, no: J2-11, c: J2-10	K30
14 (30)	nc: J2- 6, no: J2-8, c: J2-7	K31
15 (31)	nc: J2-3, no: J2-5, c: J2-4	K32

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Register Description For 3000-53 and 3000-53A (Continued)

REGISTER: 8000h		**MODE: 32 bit, BITS 16-31**
REGISTER: 8004h		**MODE: 16 bit**
FUNCTION: K33-48		
BIT	**CONNECTION**	**RELAY**
0 (16)	nc: J3-48 no: J3-50, c: J3-49	K33
1 (17)	nc: J3-45, no: J3-47, c: J3-46	K34
2 (18)	nc: J3-42, no: J3-44, c: J3-43	K35
3 (19)	nc: J3-39, no: J3-41, c: J3-40	K36
4 (20)	nc: J3-36, no: J3-38, c: J3-37	K37
5 (21)	nc: J3-33, no: J3-35, c: J3-34	K38
6 (22)	nc: J3-30, no: J3-32, c: J3-31	K39
7 (23)	nc: J3-27, no: J3-29, c: J3-28	K40
8 (24)	nc: J3-24, no: J3-26, c: J3-25	K41
9 (25)	nc: J3-21, no: J3-23, c: J3-22	K42
10 (26)	nc: J3-18, no: J3-20, c: J3-19	K43
11 (27)	nc: J3-15, no: J3-17, c: J3-16	K44
12 (28)	nc: J3-12, no: J3-14, c: J3-13	K45
13 (29)	nc: J3-9, no: J3-11, c: J3-10	K46
14 (30)	nc: J3- 6, no: J3-8, c: J3-7	K47
15 (31)	nc: J3-3, no: J3-5, c: J3-4	K48

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Register Map, 16 Bit

DESCRIPTION: 48 SPDT RELAYS, DAUGHTERBOARD #1
PCB NUMBER: 85006530 (For 3000-53)
PCB NUMBER: 85003230 (For 3000-53A)

ADDRESS OFFSET: 8020h

MSB **LSB**

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K16	K15	K14	K13	K12	K11	K10	K9	K8	K7	K6	K1	K4	K3	K2	K1

ADDRESS OFFSET: 8022h

MSB **LSB**

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K32	K31	K30	K29	K28	K27	K26	K25	K24	K23	K22	K21	K20	K19	K18	K17

ADDRESS OFFSET: 8024h

MSB **LSB**

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K48	K47	K46	K45	K44	K43	K42	K41	K40	K39	K38	K37	K36	K35	K34	K33

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Register Map, 32 Bit

DESCRIPTION: 48 SPDT RELAYS, DAUGHTERBOARD #1
PCB NUMBER: 85006530 (For 3000-53)
PCB NUMBER: 85003230 (For 3000-53A)

ADDRESS OFFSET: 8020h

LSB

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K16	K15	K14	K13	K12	K11	K10	K9	K8	K7	K6	K5	K4	K3	K2	K1

MSB

32	32	30	29	28	27	26	25	24	23	22	20	19	18	17	16
K32	K31	K30	K29	K28	K27	K26	K25	K24	K23	K22	K21	K20	K19	K18	K17

ADDRESS OFFSET: 8024h

LSB

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K48	K47	K46	K45	K44	K43	K42	K41	K40	K39	K38	K37	K36	K35	K34	K33

MSB

32	32	30	29	28	27	26	25	24	23	22	20	19	18	17	16
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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Register Description For 3000-53 and 3000-53A

REGISTER: 8020h		**MODE: 16/32 bit**
FUNCTION: Relays K1-16		
BIT	**CONNECTION**	**RELAY**
0	nc: J4-48 no: J4-50, c: J4-49	K1
1	nc: J4-45, no: J4-47, c: J4-46	K2
2	nc: J4-42, no: J4-44, c: J4-43	K3
3	nc: J4-39, no: J4-41, c: J4-40	K4
4	nc: J4-36, no: J4-38, c: J4-37	K5
5	nc: J4-33, no: J4-35, c: J4-34	K6
6	nc: J4-30, no: J4-32, c: J4-31	K7
7	nc: J4-27, no: J4-29, c: J4-28	K8
8	nc: J4-24, no: J4-26, c: J4-25	K9
9	nc: J4-21, no: J4-23, c: J4-22	K10
10	nc: J4-18, no: J4-20, c: J4-19	K11
11	nc: J4-15, no: J4-17, c: J4-16	K12
12	nc: J4-12, no: J4-14, c: J4-13	K13
13	nc: J4-9, no: J4-11, c: J4-10	K14
14	nc: J4- 6, no: J4-8, c: J4-7	K15
15	nc: J4- 3, no: J4-5, c: J4-4	K16

REGISTER: 8020h		**MODE: 32 bit, BITS 16-31**
REGISTER: 8022h		**MODE: 16 bit**
FUNCTION: K17-32		
BIT	**CONNECTION**	**RELAY**
0 (16)	nc: J5-48 no: J5-50, c: J5-49	K17
1 (17)	nc: J5-45, no: J5-47, c: J5-46	K18
2 (18)	nc: J5-42, no: J5-44, c: J5-43	K19
3 (19)	nc: J5-39, no: J5-41, c: J5-40	K20
4 (20)	nc: J5-36, no: J5-38, c: J5-37	K21
5 (21)	nc: J5-33, no: J5-35, c: J5-34	K22
6 (22)	nc: J5-30, no: J5-32, c: J5-31	K23
7 (23)	nc: J5-27, no: J5-29, c: J5-28	K24
8 (24)	nc: J5-24, no: J5-26, c: J5-25	K25
9 (25)	nc: J5-21, no: J5-23, c: J5-22	K26
10 (26)	nc: J5-18, no: J5-20, c: J5-19	K27
11 (27)	nc: J5-15, no: J5-17, c: J5-16	K28
12 (28)	nc: J5-12, no: J5-14, c: J5-13	K29
13 (29)	nc: J5-9, no: J5-11, c: J5-10	K30
14 (30)	nc: J5- 6, no: J5-8, c: J5-7	K31
15 (31)	nc: J5-3, no: J5-5, c: J5-4	K32

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Register Description For 3000-53 and 3000-53A (Continued)

REGISTER: 8024h		**MODE: 32 bit, BITS 16-31**
REGISTER: 8024h		**MODE: 16 bit**
FUNCTION: K33-48		
BIT	**CONNECTION**	**RELAY**
0 (16)	nc: J6-48 no: J6-50, c: J6-49	K33
1 (17)	nc: J6-45, no: J6-47, c: J6-46	K34
2 (18)	nc: J6-42, no: J6-44, c: J6-43	K35
3 (19)	nc: J6-39, no: J6-41, c: J6-40	K36
4 (20)	nc: J6-36, no: J6-38, c: J6-37	K37
5 (21)	nc: J6-33, no: J6-35, c: J6-34	K38
6 (22)	nc: J6-30, no: J6-32, c: J6-31	K39
7 (23)	nc: J6-27, no: J6-29, c: J6-28	K40
8 (24)	nc: J6-24, no: J6-26, c: J6-25	K41
9 (25)	nc: J6-21, no: J6-23, c: J6-22	K42
10 (26)	nc: J6-18, no: J6-20, c: J6-19	K43
11 (27)	nc: J6-15, no: J6-17, c: J6-16	K44
12 (28)	nc: J6-12, no: J6-14, c: J6-13	K45
13 (29)	nc: J6-9, no: J6-11, c: J6-10	K46
14 (30)	nc: J6- 6, no: J6-8, c: J6-7	K47
15 (31)	nc: J6-3, no: J6-5, c: J6-4	K48

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Register Map, 16 Bit

DESCRIPTION: 48 SPDT RELAYS, DAUGHTERBOARD #2
PCB NUMBER: 85003260 (For 3000-53A only)

ADDRESS OFFSET: 8040h

MSB **LSB**

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K16	K15	K14	K13	K12	K11	K10	K9	K8	K7	K6	K1	K4	K3	K2	K1

ADDRESS OFFSET: 8042h

MSB **LSB**

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K32	K31	K30	K29	K28	K27	K26	K25	K24	K23	K22	K21	K20	K19	K18	K17

ADDRESS OFFSET: 8044h

MSB **LSB**

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K48	K47	K46	K45	K44	K43	K42	K41	K40	K39	K38	K37	K36	K35	K34	K33

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Register Map, 32 Bit

DESCRIPTION: 48 SPDT RELAYS, DAUGHTERBOARD #2
PCB NUMBER: 85003260 (For 3000-53A only)

ADDRESS OFFSET: 8040h

LSB

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K16	K15	K14	K13	K12	K11	K10	K9	K8	K7	K6	K5	K4	K3	K2	K1

MSB

32	32	30	29	28	27	26	25	24	23	22	20	19	18	17	16
K32	K31	K30	K29	K28	K27	K26	K25	K24	K23	K22	K21	K20	K19	K18	K17

ADDRESS OFFSET: 8044h

LSB

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
K48	K47	K46	K45	K44	K43	K42	K41	K40	K39	K38	K37	K36	K35	K34	K33

MSB

32	32	30	29	28	27	26	25	24	23	22	20	19	18	17	16
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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Register Description For 3000-53A

REGISTER: 8040h		**MODE: 16/32 bit**
FUNCTION: Relays K1-16		
BIT	**CONNECTION**	**RELAY**
0	nc: J7-48 no: J7-50, c: J7-49	K1
1	nc: J7-45, no: J7-47, c: J7-46	K2
2	nc: J7-42, no: J7-44, c: J7-43	K3
3	nc: J7-39, no: J7-41, c: J7-40	K4
4	nc: J7-36, no: J7-38, c: J7-37	K5
5	nc: J7-33, no: J7-35, c: J7-34	K6
6	nc: J7-30, no: J7-32, c: J7-31	K7
7	nc: J7-27, no: J7-29, c: J7-28	K8
8	nc: J7-24, no: J7-26, c: J7-25	K9
9	nc: J7-21, no: J7-23, c: J7-22	K10
10	nc: J7-18, no: J7-20, c: J7-19	K11
11	nc: J7-15, no: J7-17, c: J7-16	K12
12	nc: J7-12, no: J7-14, c: J7-13	K13
13	nc: J7-9, no: J7-11, c: J7-10	K14
14	nc: J7- 6, no: J7-8, c: J7-7	K15
15	nc: J7- 3, no: J7-5, c: J7-4	K16

REGISTER: 8040h		**MODE: 32 bit, BITS 16-31**
REGISTER: 8042h		**MODE: 16 bit**
FUNCTION: K17-32		
BIT	**CONNECTION**	**RELAY**
0 (16)	nc: J8-48 no: J8-50, c: J8-49	K17
1 (17)	nc: J8-45, no: J8-47, c: J8-46	K18
2 (18)	nc: J8-42, no: J8-44, c: J8-43	K19
3 (19)	nc: J8-39, no: J8-41, c: J8-40	K20
4 (20)	nc: J8-36, no: J8-38, c: J8-37	K21
5 (21)	nc: J8-33, no: J8-35, c: J8-34	K22
6 (22)	nc: J8-30, no: J8-32, c: J8-31	K23
7 (23)	nc: J8-27, no: J8-29, c: J8-28	K24
8 (24)	nc: J8-24, no: J8-26, c: J8-25	K25
9 (25)	nc: J8-21, no: J8-23, c: J8-22	K26
10 (26)	nc: J8-18, no: J8-20, c: J8-19	K27
11 (27)	nc: J8-15, no: J8-17, c: J8-16	K28
12 (28)	nc: J8-12, no: J8-14, c: J8-13	K29
13 (29)	nc: J8-9, no: J8-11, c: J8-10	K30
14 (30)	nc: J8- 6, no: J8-8, c: J8-7	K31
15 (31)	nc: J8-3, no: J8-5, c: J8-4	K32

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Register Description For 3000-53A (Continued)

REGISTER: 8044h		**MODE: 32 bit, BITS 16-31**
REGISTER: 8044h		**MODE: 16 bit**
FUNCTION: K33-48		
BIT	**CONNECTION**	**RELAY**
0 (16)	nc: J9-48 no: J9-50, c: J9-49	K33
1 (17)	nc: J9-45, no: J9-47, c: J9-46	K34
2 (18)	nc: J9-42, no: J9-44, c: J9-43	K35
3 (19)	nc: J9-39, no: J9-41, c: J9-40	K36
4 (20)	nc: J9-36, no: J9-38, c: J9-37	K37
5 (21)	nc: J9-33, no: J9-35, c: J9-34	K38
6 (22)	nc: J9-30, no: J9-32, c: J9-31	K39
7 (23)	nc: J9-27, no: J9-29, c: J9-28	K40
8 (24)	nc: J9-24, no: J9-26, c: J9-25	K41
9 (25)	nc: J9-21, no: J9-23, c: J9-22	K42
10 (26)	nc: J9-18, no: J9-20, c: J9-19	K43
11 (27)	nc: J9-15, no: J9-17, c: J9-16	K44
12 (28)	nc: J9-12, no: J9-14, c: J9-13	K45
13 (29)	nc: J9-9, no: J9-11, c: J9-10	K46
14 (30)	nc: J9- 6, no: J9-8, c: J9-7	K47
15 (31)	nc: J9-3, no: J9-5, c: J9-4	K48

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Connector Pin Configuration

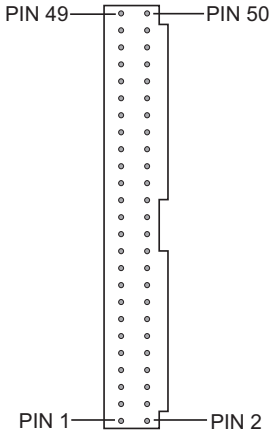
Model 3000-53

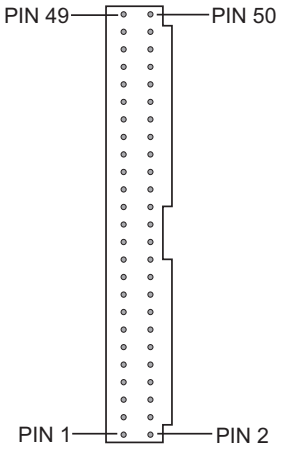
Typical pin configuration for J1, J2, J3, J4, J5, and J6.

Model 3000-53A

Typical pin configuration for J1, J2, J3, J4, J5, J6, J7, J8 and J9.

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MODEL 3000-53/53A

General Purpose Switching Module Technical Manual

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Warranty Service

All warranty service will be performed by ASCOR or ASCOR authorized personnel at ASCOR's facilities in Fremont, CA. Before a unit is returned for warranty service, Customer must contact ASCOR service department at (510-490-2300) to receive a Return Authorization (RA) number. This number must be prominently marked on the return package.

Upon receipt of the returned product, ASCOR will evaluate the warranty claim to ensure that the product does qualify for warranty coverage. ASCOR will notify the customer within 2 working days of receipt of the defective unit as to ASCOR's determination regarding warranty coverage and the length of time that will be required to repair or replace the defective unit or parts. The decision to repair or replace unit and or parts will be ASCOR's.

If the returned product does not qualify for warranty service for any reason, ASCOR will advise customer. ASCOR will also advise customer of costs to repair or replace defective unit or parts so that customer may then decide what course of action will be taken.

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PL90400530
Assy 90400530

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Assy 85006520
SCH85006520
PL85006530
Assy 85006530
SCH85006530

Module 3000-53A
PL90400530-101
Assy 90400530-101

Schematics
PL85004180
Assy 85004180
SCH85004180
PL85004190
Assy 85004190
SCH85004190

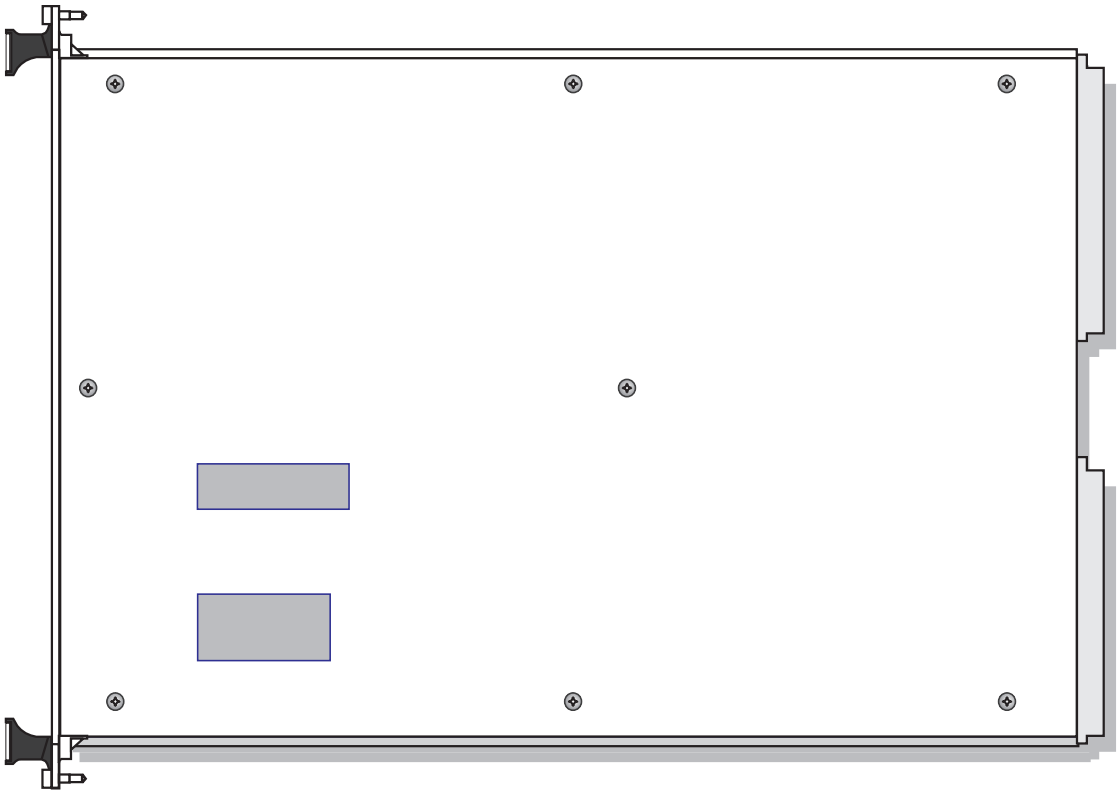
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Installation and Maintenance

Introduction

The Module 3000-53 and 3000-53A is shipped in operational condition, and is ready for use as received. This section contains inspection, removal and installation information to aid in setting up the module for immediate use.

All ASCOR VXI modules must pass a Factory Acceptance Test Procedure inspection before leaving the plant and are shipped in operational condition. Upon receipt, a receiving inspection test should be performed immediately after unpacking to ensure that the module is still operational.



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Inspection

After initial inspection of the module 3000-53 and 3000-53A, each connector should be inspected for loose or broken contacts. Check for any visible damage to the module. If damage of any nature is found, notify the carrier and your ASCOR representative immediately.

Installation and Removal

WARNING

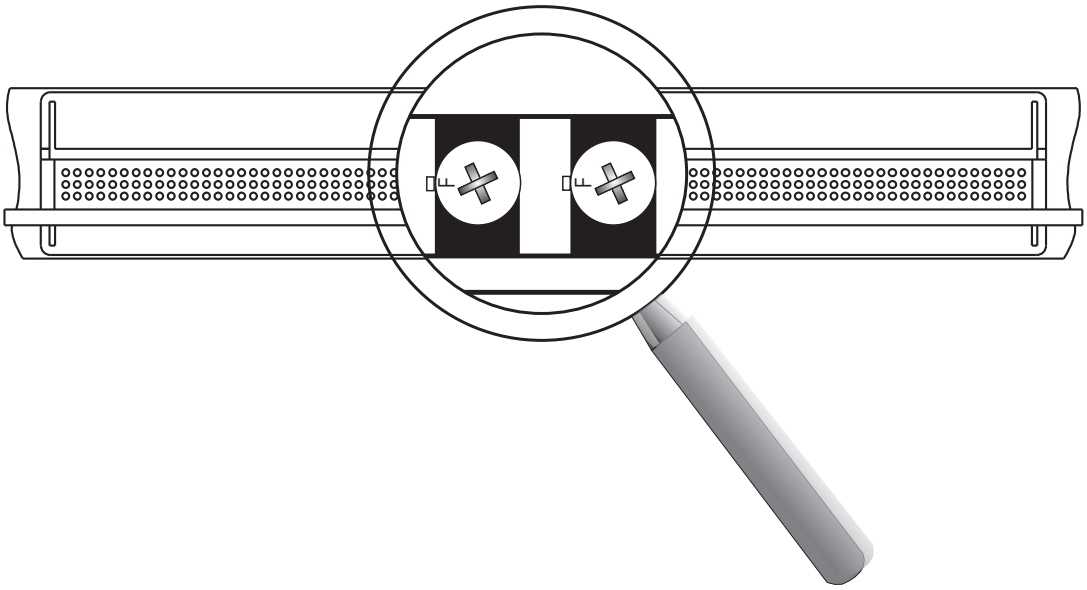
*The VXI Chassis' power must be **OFF** before installing or removing modules from the mainframe. Damage may occur if the modules are removed with the power still **ON.***

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Logical Address Switch

The Logical Address Switch is dual circular switches, D1 and D2 which are located at the rear of the module. The address can be set to any value between 1 and 255 (decimal) or 1 and FF (hexadecimal). (address 0 is reserved for the resource manager). However, the Module 3000-53 and 3000-53A fully supports Dynamic Configuration as defined in ***Section F of the VXI specification,*** address 255 (FF) should be selected only if the Resource Manager also supports Dynamic Configuration.

Logical Address Switches



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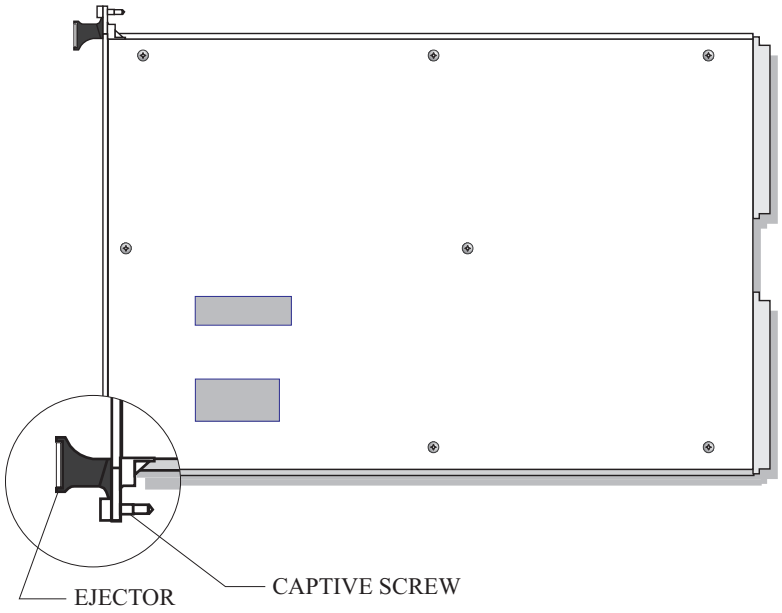
Installing the Module into VXI Chassis

The Module 3000-53 and 3000-53A is a standard size C, VXIbus Functional module. It is fitted into the VXI chassis by turning it to its vertical position with its Board to the left, and sliding it into any slot except slot 0.

Ejectors are located at the top and bottom of the panel. When removing the module, these operate as levers to ease the P1 and P2 connectors out of the backplane. When installing, the module should be gently pressed in to engage the connectors into the backplane, and when fully seated, the ejectors will be set at right angles to the surface of the front panel. Two captive screws, outboard of the ejectors, secure the module to the VXI chassis.

Removal of the Module from VXI Chassis

Two Captive screws, outboard of the ejectors, are unscrewed to release the module from the VXI chassis. Ejectors are located at the top and bottom of the front panel. These are forced gently outwards (top-up; bottom-down) to operate levers which ease P1 and P2 connectors out of the backplane. The module can then be pulled to slide it out of the slot.



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