

Cross Point Module

The Cross Point Module is a relay switch matrix with six (6) 2-wire busses. Up to 12 modules can be connected to the cross point module. The cross point module can also be connected to another cross point module to expand the number of modules that can have signals switched between the system resources.

Typical Module	Cross Point Connector (MOD 1 to MOD 12)
FUNC-2	MOD1+
FUNC-2	MOD1-
TR-10	MOD2+
TR-10	MOD2-
MPX-2-50 #1	MOD3+
MPX-2-50 #1	MOD3-
MPX-2-50 #2	MOD4+
MPX-2-50 #2	MOD4-
MPX-2-50 #3	MOD5+
MPX-2-50 #3	MOD5-
MPX-2-50 #4	MOD6+
MPX-2-50 #4	MOD6-
MPX-2-50 #5	MOD7+
MPX-2-50 #5	MOD7-
MPX-2-50 #6	MOD8+
MPX-2-50 #6	MOD8-
MPX-2-50 #7	MOD9+
MPX-2-50 #7	MOD9-
MPX-2-50 #8	MOD10+
MPX-2-50 #8	MOD10-
PWR	MOD11+
PWR	MOD11-
open	MOD12+
open	MOD12-

Cross Point Module

The following system configuration window shows the typical connections to the Cross Point module. The cross point module has 12 2-wire connectors labeled MOD1 to MOD12 (#1 to #12).

Analyst ICT - Configure System

Modules | Environment | External Hardware | Press

Module	Points	Base Address		Board Select		Interface	CrossPoint
		Jumpers	Addresses	Jumpers	Address		
TR-10 System		⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	0		● ● # 2
FUNC-2	1601-1616	⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	50	E151	● ● # 1
Cross Point 1		⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	64		● ●
MPX-2-50 1	1-50	⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	1	A1	● ● # 3
MPX-2-50 2	51-100	⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	2	A51	● ● # 4
MPX-2-50 3	101-150	⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	3	A101	● ● # 5
MPX-2-50 4	151-200	⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	4	A151	● ● # 6
MPX-2-50 5	201-250	⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	5	B1	● ● # 7
MPX-2-50 6	251-300	⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	6	B51	● ● # 8
MPX-2-50 7	301-350	⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	7	B101	● ● # 9
MPX-2-50 8	351-400	⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	8	B151	● ● # 10
PWR-2	1631-1646	⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	32	E51	● ● # 11
DIG-1 1		⦿ ⦿ ⦿	768 - 799	⦿ ⦿ ⦿ ⦿ ⦿	33	K101	N/A
PS-UUT-L1 1		⦿ ⦿ ⦿ ⦿	6	N/A	N/A	K1-K100	N/A

Buttons: Add Module ..., Delete Module ..., Address Mode ..., Modify ..., Self-Test, Self-Test All, Auto Detect, Revert ...

Module Specific: _____

Buttons: ? Help, Print..., Save ..., OK

Cross Point Module

Each of the internal 2-wire busses (RBUS1 to RBUS6) can be connected to any of the MOD1 to MOD12 connections. The following shows the connections from the 12 MOD connectors to the relays and the relay control signals.

RBUS1	Relay	Coil	Coil Control Signal
MOD1+	K1B Pin 6	KC1	U1 - Pin 20
MOD1-	K1A Pin 3		
MOD2+	K2B Pin 6	KC2	U1 - Pin 19
MOD2-	K2A Pin 3		
MOD3+	K3B Pin 6	KC3	U1 - Pin 18
MOD3-	K3A Pin 3		
MOD4+	K4B Pin 6	KC4	U1 - Pin 17
MOD4-	K4A Pin 3		
MOD5+	K5B Pin 6	KC5	U1 - Pin 16
MOD5-	K5A Pin 3		
MOD6+	K6B Pin 6	KC6	U1 - Pin 15
MOD6-	K6A Pin 3		
MOD7+	K7B Pin 6	KC7	U1 - Pin 14
MOD7-	K7A Pin 3		
MOD8+	K8B Pin 6	KC8	U1 - Pin 13
MOD8-	K8A Pin 3		
MOD9+	K9B Pin 6	KC9	U2 - Pin 20
MOD9-	K9A Pin 3		
MOD10+	K10B Pin 6	KC10	U2 - Pin 19
MOD10-	K10A Pin 3		
MOD11+	K11B Pin 6	KC11	U2 - Pin 18
MOD11-	K11A Pin 3		
MOD12+	K12B Pin 6	KC12	U2 - Pin 17
MOD12-	K12A Pin 3		

Cross Point Module

RBUS2	Relay	Coil	Coil Control Signal
MOD1+	K13B Pin 6	KC13	U2 - Pin 16
MOD1-	K13A Pin 3		
MOD2+	K14B Pin 6	KC14	U2 - Pin 15
MOD2-	K14A Pin 3		
MOD3+	K15B Pin 6	KC15	U2 - Pin 14
MOD3-	K15A Pin 3		
MOD4+	K16B Pin 6	KC16	U2 - Pin 13
MOD4-	K16A Pin 3		
MOD5+	K17B Pin 6	KC17	U3 - Pin 20
MOD5-	K17A Pin 3		
MOD6+	K18B Pin 6	KC18	U3 - Pin 19
MOD6-	K18A Pin 3		
MOD7+	K19B Pin 6	KC19	U3 - Pin 18
MOD7-	K19A Pin 3		
MOD8+	K20B Pin 6	KC20	U3 - Pin 17
MOD8-	K20A Pin 3		
MOD9+	K21B Pin 6	KC21	U3 - Pin 16
MOD9-	K21A Pin 3		
MOD10+	K22B Pin 6	KC22	U3 - Pin 15
MOD10-	K22A Pin 3		
MOD11+	K23B Pin 6	KC23	U3 - Pin 14
MOD11-	K23A Pin 3		
MOD12+	K24B Pin 6	KC24	U3 - Pin 13
MOD12-	K24A Pin 3		

Cross Point Module

RBUS3	Relay	Coil	Coil Control Signal
MOD1+	K25B Pin 6	KC25	U4 - Pin 20
MOD1-	K25A Pin 3		
MOD2+	K26B Pin 6	KC26	U4 - Pin 19
MOD2-	K26A Pin 3		
MOD3+	K27B Pin 6	KC27	U4 - Pin 18
MOD3-	K27A Pin 3		
MOD4+	K28B Pin 6	KC28	U4 - Pin 17
MOD4-	K28A Pin 3		
MOD5+	K29B Pin 6	KC29	U4 - Pin 16
MOD5-	K29A Pin 3		
MOD6+	K30B Pin 6	KC30	U4 - Pin 15
MOD6-	K30A Pin 3		
MOD7+	K31B Pin 6	KC31	U4 - Pin 14
MOD7-	K31A Pin 3		
MOD8+	K32B Pin 6	KC32	U4 - Pin 13
MOD8-	K32A Pin 3		
MOD9+	K33B Pin 6	KC33	U5 - Pin 20
MOD9-	K33A Pin 3		
MOD10+	K34B Pin 6	KC34	U5 - Pin 19
MOD10-	K34A Pin 3		
MOD11+	K35B Pin 6	KC35	U5 - Pin 18
MOD11-	K35A Pin 3		
MOD12+	K36B Pin 6	KC36	U5 - Pin 17
MOD12-	K36A Pin 3		

Cross Point Module

RBUS4	Relay	Coil	Coil Control Signal
MOD1+	K37B Pin 6	KC37	U5 - Pin 16
MOD1-	K37A Pin 3		
MOD2+	K38B Pin 6	KC38	U5 - Pin 15
MOD2-	K38A Pin 3		
MOD3+	K39B Pin 6	KC39	U5 - Pin 14
MOD3-	K39A Pin 3		
MOD4+	K40B Pin 6	KC40	U5 - Pin 13
MOD4-	K40A Pin 3		
MOD5+	K41B Pin 6	KC41	U6 - Pin 20
MOD5-	K41A Pin 3		
MOD6+	K42B Pin 6	KC42	U6 - Pin 19
MOD6-	K42A Pin 3		
MOD7+	K43B Pin 6	KC43	U6 - Pin 18
MOD7-	K43A Pin 3		
MOD8+	K44B Pin 6	KC44	U6 - Pin 17
MOD8-	K44A Pin 3		
MOD9+	K45B Pin 6	KC45	U6 - Pin 16
MOD9-	K45A Pin 3		
MOD10+	K46B Pin 6	KC46	U6 - Pin 15
MOD10-	K46A Pin 3		
MOD11+	K47B Pin 6	KC47	U6 - Pin 14
MOD11-	K47A Pin 3		
MOD12+	K48B Pin 6	KC48	U6 - Pin 13
MOD12-	K48A Pin 3		

Cross Point Module

RBUS5	Relay	Coil	Coil Control Signal
MOD1+	K49B Pin 6	KC49	U7 - Pin 20
MOD1-	K49A Pin 3		
MOD2+	K50B Pin 6	KC50	U7 - Pin 19
MOD2-	K50A Pin 3		
MOD3+	K51B Pin 6	KC51	U7 - Pin 18
MOD3-	K51A Pin 3		
MOD4+	K52B Pin 6	KC52	U7 - Pin 17
MOD4-	K52A Pin 3		
MOD5+	K53B Pin 6	KC53	U7 - Pin 16
MOD5-	K53A Pin 3		
MOD6+	K54B Pin 6	KC54	U7 - Pin 15
MOD6-	K54A Pin 3		
MOD7+	K55B Pin 6	KC55	U7 - Pin 14
MOD7-	K55A Pin 3		
MOD8+	K56B Pin 6	KC56	U7 - Pin 13
MOD8-	K56A Pin 3		
MOD9+	K57B Pin 6	KC57	U8 - Pin 20
MOD9-	K57A Pin 3		
MOD10+	K58B Pin 6	KC58	U8 - Pin 19
MOD10-	K58A Pin 3		
MOD11+	K59B Pin 6	KC59	U8 - Pin 18
MOD11-	K59A Pin 3		
MOD12+	K60B Pin 6	KC60	U8 - Pin 17
MOD12-	K60A Pin 3		

Cross Point Module

RBUS6	Relay	Coil	Coil Control Signal
MOD1+	K61B Pin 6	KC61	U8 - Pin 16
MOD1-	K61A Pin 3		
MOD2+	K62B Pin 6	KC62	U8 - Pin 15
MOD2-	K62A Pin 3		
MOD3+	K63B Pin 6	KC63	U8 - Pin 14
MOD3-	K63A Pin 3		
MOD4+	K64B Pin 6	KC64	U8 - Pin 13
MOD4-	K64A Pin 3		
MOD5+	K65B Pin 6	KC65	U9 - Pin 20
MOD5-	K65A Pin 3		
MOD6+	K66B Pin 6	KC66	U9 - Pin 19
MOD6-	K66A Pin 3		
MOD7+	K67B Pin 6	KC67	U9 - Pin 18
MOD7-	K67A Pin 3		
MOD8+	K68B Pin 6	KC68	U9 - Pin 17
MOD8-	K68A Pin 3		
MOD9+	K69B Pin 6	KC69	U9 - Pin 16
MOD9-	K69A Pin 3		
MOD10+	K70B Pin 6	KC70	U9 - Pin 15
MOD10-	K70A Pin 3		
MOD11+	K71B Pin 6	KC71	U9 - Pin 14
MOD11-	K71A Pin 3		
MOD12+	K72B Pin 6	KC72	U9 - Pin 13
MOD12-	K72A Pin 3		

Cross Point Module

	Relay	Coil	Coil Control Signal
SWRBUS1+	K73B Pin 6	KC73	U10 - Pin 20
SWRBUS1-	K73A Pin 3		
SWRBUS2+	K74B Pin 6	KC74	U10 - Pin 19
SWRBUS2-	K74A Pin 3		
SWRBUS3+	K75B Pin 6	KC75	U10 - Pin 18
SWRBUS3-	K75A Pin 3		
SWRBUS4+	K76B Pin 6	KC76	U10 - Pin 17
SWRBUS4-	K76A Pin 3		
SWRBUS5+	K77B Pin 6	KC77	U10 - Pin 16
SWRBUS5-	K77A Pin 3		
SWRBUS6+	K78B Pin 6	KC78	U10 - Pin 15
SWRBUS6-	K78A Pin 3		

P4 provides connections to a back panel 34-pin connector (not installed).

BUS1	P4-1	P4-2	BUS2
BUS3	P4-3	P4-4	BUS4
BUS5	P4-5	P4-6	BUS6
BUS7	P4-7	P4-8	BUS8
BUS9	P4-9	P4-10	BUS10
BUS11	P4-11	P4-12	BUS12
BUS13	P4-13	P4-14	BUS14
BUS15	P4-15	P4-16	BUS16
SWRBUS1+	P4-17	P4-18	SWRBUS1-
SWRBUS2+	P4-19	P4-20	SWRBUS2-
SWRBUS3+	P4-21	P4-22	SWRBUS3-
SWRBUS4+	P4-23	P4-24	SWRBUS4-
SWRBUS5+	P4-25	P4-26	SWRBUS5-
SWRBUS6+	P4-27	P4-28	SWRBUS6-
	P4-29	P4-30	
	P4-31	P4-32	
	P4-33	P4-34	

P5 connects to an internal 16-wire analog bus. This ribbon cable parallel bus is connected to most modules.

BUS1	P5-1	P5-2	BUS2
BUS3	P5-3	P5-4	BUS4
BUS5	P5-5	P5-6	BUS6
BUS7	P5-7	P5-8	BUS8
BUS9	P5-9	P5-10	BUS10
BUS11	P5-11	P5-12	BUS12
BUS13	P5-13	P5-14	BUS14
BUS15	P5-15	P5-16	BUS16

