DataSheet

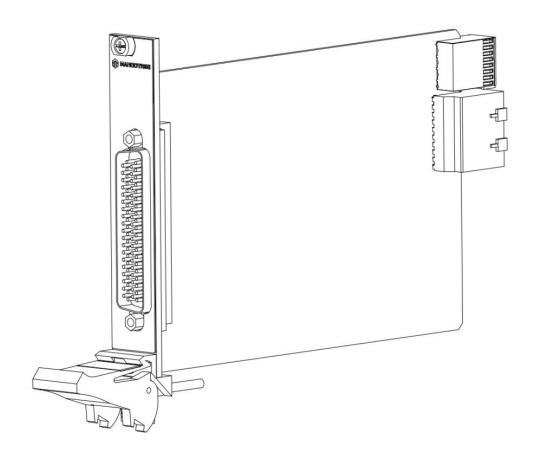
MT-X753

Matrix module, 2-wire,8×12, 250VAC/220VDC, 2A

This document contains the specifications for MT-X753. Specifications are typical at 25°C unless otherwise noted.



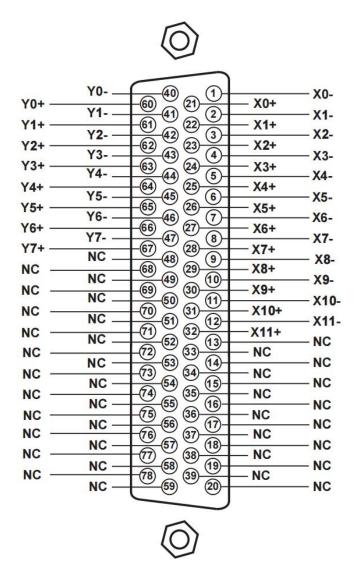
Caution Using the MT-X753 in a manner not described in this document may impair the protection the MT-X753 provides.



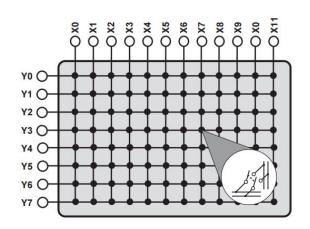


MT-X753 Connectivity

Pin definition of DSUB connector.



Hardware Diagram



NO.	Signal Path	Relay Number	NO.	Signal Path	Relay Number
1	Y0+ to X0+ and Y0- to X0-	K0	49	Y4+ to X0+ and Y4- to X0-	K48
2	Y0+ to X1+ and Y0- to X1-	K1	50	Y4+ to X1+ and Y4- to X1-	K49
3	Y0+ to X2+ and Y0- to X2-	K2	51	Y4+ to X2+ and Y4- to X2-	K50
4	Y0+ to X3+ and Y0- to X3-	К3	52	Y4+ to X3+ and Y4- to X3-	K51
5	Y0+ to X4+ and Y0- to X4-	K4	53	Y4+ to X4+ and Y4- to X4-	K52
6	Y0+ to X5+ and Y0- to X5-	K5	54	Y4+ to X5+ and Y4- to X5-	K53
7	Y0+ to X6+ and Y0- to X6-	K6	55	Y4+ to X6+ and Y4- to X6-	K54
8	Y0+ to X7+ and Y0- to X7-	K7	56	Y4+ to X7+ and Y4- to X7-	K55
9	Y0+ to X8+ and Y0- to X8-	K8	57	Y4+ to X8+ and Y4- to X8-	K56
10	Y0+ to X9+ and Y0- to X9-	K9	58	Y4+ to X9+ and Y4- to X9-	K57
11	Y0+ to X10+ and Y0- to X10-	K10	59	Y4+ to X10+ and Y4- to X10-	K58
12	Y0+ to X11+ and Y0- to X11-	K11	60	Y4+ to X11+ and Y4- to X11-	K59
13	Y1+ to X0+ and Y1- to X0-	K12	61	Y5+ to X0+ and Y5- to X0-	K60
14	Y1+ to X1+ and Y1- to X1-	K13	62	Y5+ to X1+ and Y5- to X1-	K61
15	Y1+ to X2+ and Y1- to X2-	K14	63	Y5+ to X2+ and Y5- to X2-	K62
16	Y1+ to X3+ and Y1- to X3-	K15	64	Y5+ to X3+ and Y5- to X3-	K63
17	Y1+ to X4+ and Y1- to X4-	K16	65	Y5+ to X4+ and Y5- to X4-	K64
18	Y1+ to X5+ and Y1- to X5-	K17	66	Y5+ to X5+ and Y5- to X5-	K65
19	Y1+ to X6+ and Y1- to X6-	K18	67	Y5+ to X6+ and Y5- to X6-	K66
20	Y1+ to X7+ and Y1- to X7-	K19	68	Y5+ to X7+ and Y5- to X7-	K67
21	Y1+ to X8+ and Y1- to X8-	K20	69	Y5+ to X8+ and Y5- to X8-	K68
22	Y1+ to X9+ and Y1- to X9-	K21	70	Y5+ to X9+ and Y5- to X9-	K69
23	Y1+ to X10+ and Y1- to X10-	K22	71	Y5+ to X10+ and Y5- to X10-	K70
24	Y1+ to X11+ and Y1- to X11-	K23	72	Y5+ to X11+ and Y5- to X11-	K71
25	Y2+ to X0+ and Y2- to X0-	K24	73	Y6+ to X0+ and Y6- to X0-	K72
26	Y2+ to X1+ and Y2- to X1-	K25	74	Y6+ to X1+ and Y6- to X1-	K73
27	Y2+ to X2+ and Y2- to X2-	K26	75	Y6+ to X2+ and Y6- to X2-	K74
28	Y2+ to X3+ and Y2- to X3-	K27	76	Y6+ to X3+ and Y6- to X3-	K75
29	Y2+ to X4+ and Y2- to X4-	K28	77	Y6+ to X4+ and Y6- to X4-	K76
30	Y2+ to X5+ and Y2- to X5-	K29	78	Y6+ to X5+ and Y6- to X5-	K77
31	Y2+ to X6+ and Y2- to X6-	K30	79	Y6+ to X6+ and Y6- to X6-	K78
32	Y2+ to X7+ and Y2- to X7-	K31	80	Y6+ to X7+ and Y6- to X7-	K79
33	Y2+ to X8+ and Y2- to X8-	K32	81	Y6+ to X8+ and Y6- to X8-	K80
34	Y2+ to X9+ and Y2- to X9-	K33	82	Y6+ to X9+ and Y6- to X9-	K81
35	Y2+ to X10+ and Y1- to X10-	K34	83	Y6+ to X10+ and Y6- to X10-	K82
36	Y2+ to X11+ and Y1- to X11-	K35	84	Y6+ to X11+ and Y6- to X11-	K83
37	Y3+ to X0+ and Y3- to X0-	K36	85	Y7+ to X0+ and Y7- to X0-	K84
38	Y3+ to X1+ and Y3- to X1-	K37	86	Y7+ to X1+ and Y7- to X1-	K85
39	Y3+ to X2+ and Y3- to X2-	K38	87	Y7+ to X2+ and Y7- to X2-	K86
40	Y3+ to X3+ and Y3- to X3-	K39	88	Y7+ to X3+ and Y7- to X3-	K87
41	Y3+ to X4+ and Y3- to X4-	K40	89	Y7+ to X4+ and Y7- to X4-	K88

42	Y3+ to X5+ and Y3- to X5-	K41	90	Y7+ to X5+ and Y7- to X5-	K89
43	Y3+ to X6+ and Y3- to X6-	K42	91	Y7+ to X6+ and Y7- to X6-	K90
44	Y3+ to X7+ and Y3- to X7-	K43	92	Y7+ to X7+ and Y7- to X7-	K91
45	Y3+ to X8+ and Y3- to X8-	K44	93	Y7+ to X8+ and Y7- to X8-	K92
46	Y3+ to X9+ and Y3- to X9-	K45	94	Y7+ to X9+ and Y7- to X9-	K93
47	Y3+ to X10+ and Y3- to X10-	K46	95	Y7+ to X10+ and Y7- to X10-	K94
48	Y3+ to X11+ and Y3- to X11-	K47	96	Y7+ to X11+ and Y7- to X11-	K95

MT-X753 Specifications

Specifications are valid at 23 °C unless otherwise noted.

Input Characteristics

Topology	2-wire, 8×12 matrix		
Maximum switching voltage	220V DC,250V AC		
Maximum switching power (per channel)			
AC	62.5 VA		
DC (30 V to 220 V)	60 W		
Maximum current (per channel)	2 A		
DC path resistance			
Initial	<0.8 Ω		
End-of-life	≥1.8 Ω		
Relay operate time			
Typical	3 ms		
Maximum	6 ms		

Safety Voltages

This product is designed to meet the requirements of the following electrical equipment safety standards for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA C22.2 No. 61010-1

CE Compliance (€

This product meets the essential requirements of applicable European Directives, as follows:

- 2014/35/EU; Low-Voltage Directive (safety)
- 2014/30/EU; Electromagnetic Compatibility Directive (EMC)
- 2014/34/EU; Potentially Explosive Atmospheres (ATEX)

Shock and Vibration

To meet these specifications, you must panel mount the system.

Random vibration			
Operating (IEC 60068-2-64)	0.3g _{rms} , 5 Hz to 500 Hz		
Nonoperating (IEC 60068-2-6)	2.4g _{rms} , 5 Hz to 500 Hz		
Operating shock (IEC 60068-2-27)	30 g, 11 ms half sine;		

Environmental

Refer to the manual for the chassis you are using for more information about meeting these specifications.

Operating temperature	0 °C to 55 °C		
Storage temperature	-20°C to 70 °C		
Operating humidity (IEC 60068-2-78)	10% RH to 90% RH, noncondensing		
Storage humidity (IEC 60068-2-78)	5% RH to 95% RH, noncondensing Pollution		
Degree	2		
Maximum altitude	2,000 m		

Config文本

MT-DAQ设备的开发和使用依赖于Config配置文本,只有正确配置该文本,才能保证设备的正常运行。不同型号的设备或板卡对应的配置参数是不同的。Python、LabVIEW和C#三种编程语言的Config配置文本完全相同。

通用Config配置文本通过MT-Master软件主页导出获得,用户可以根据实际设备或板卡的参数对配置文本进行修改配置,或者按照文本默认参数配置运行。

Config配置文本中的各项参数含义及其具体配置可以参考MT-DAQ上手指南,指南链接附于下文Support板块。

使用MT产品过程中如有任何疑问,可以通过访问官网: http://www.mangotree.cn 联系专业客服咨询。



Support

MT-Master上手指南:

http://server.mangotree.cn:9900/WebFile/Downloads/上手指南/MT-Master/



Master上手指南

MT-Master视频教程:

http://server.mangotree.cn:9900/WebFile/Downloads/视频教程/MT-Master/



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