

DataSheet

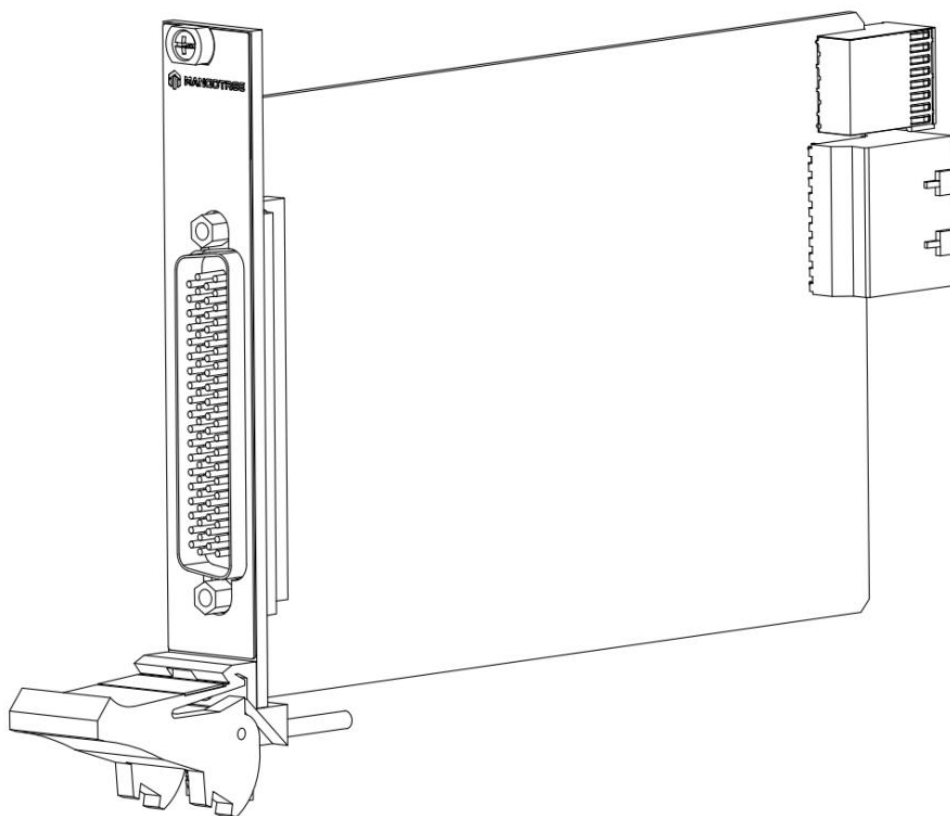
MT-X750

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

This document contains the specifications for MT-X750. Specifications are typical at 25°C unless otherwise noted.

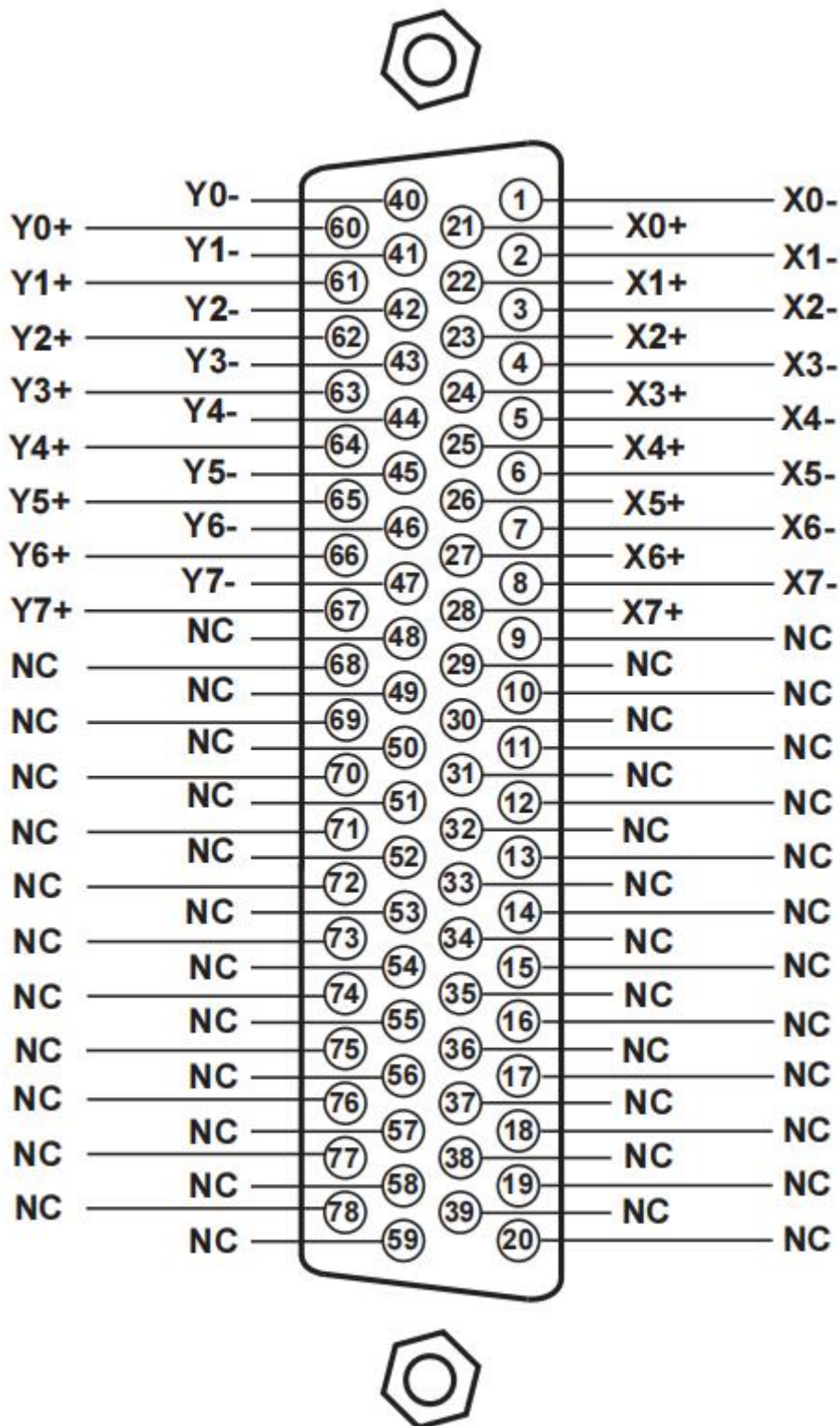


Caution Using the MT-X750 in a manner not described in this document may impair the protection the MT-X750 provides.

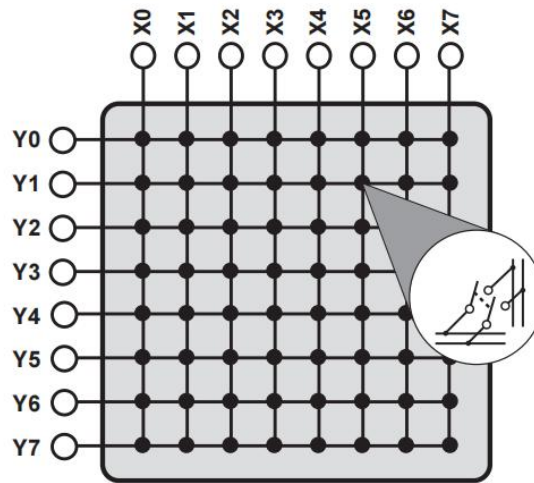


MT-X750 Connectivity

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	33	Y4+ to X0+ and Y4- to X0-	K32
2	Y0+ to X1+ and Y0- to X1-	K1	34	Y4+ to X1+ and Y4- to X1-	K33
3	Y0+ to X2+ and Y0- to X2-	K2	35	Y4+ to X2+ and Y4- to X2-	K34
4	Y0+ to X3+ and Y0- to X3-	K3	36	Y4+ to X3+ and Y4- to X3-	K35
5	Y0+ to X4+ and Y0- to X4-	K4	37	Y4+ to X4+ and Y4- to X4-	K36
6	Y0+ to X5+ and Y0- to X5-	K5	38	Y4+ to X5+ and Y4- to X5-	K37
7	Y0+ to X6+ and Y0- to X6-	K6	39	Y4+ to X6+ and Y4- to X6-	K38
8	Y0+ to X7+ and Y0- to X7-	K7	40	Y4+ to X7+ and Y4- to X7-	K39
9	Y1+ to X0+ and Y1- to X0-	K8	41	Y5+ to X0+ and Y5- to X0-	K40
10	Y1+ to X1+ and Y1- to X1-	K9	42	Y5+ to X1+ and Y5- to X1-	K41
11	Y1+ to X2+ and Y1- to X2-	K10	43	Y5+ to X2+ and Y5- to X2-	K42
12	Y1+ to X3+ and Y1- to X3-	K11	44	Y5+ to X3+ and Y5- to X3-	K43
13	Y1+ to X4+ and Y1- to X4-	K12	45	Y5+ to X4+ and Y5- to X4-	K44
14	Y1+ to X5+ and Y1- to X5-	K13	46	Y5+ to X5+ and Y5- to X5-	K45
15	Y1+ to X6+ and Y1- to X6-	K14	47	Y5+ to X6+ and Y5- to X6-	K46
16	Y1+ to X7+ and Y1- to X7-	K15	48	Y5+ to X7+ and Y5- to X7-	K47
17	Y2+ to X0+ and Y2- to X0-	K16	49	Y6+ to X0+ and Y6- to X0-	K48
18	Y2+ to X1+ and Y2- to X1-	K17	50	Y6+ to X1+ and Y6- to X1-	K49
19	Y2+ to X2+ and Y2- to X2-	K18	51	Y6+ to X2+ and Y6- to X2-	K50
20	Y2+ to X3+ and Y2- to X3-	K19	52	Y6+ to X3+ and Y6- to X3-	K51
21	Y2+ to X4+ and Y2- to X4-	K20	53	Y6+ to X4+ and Y6- to X4-	K52
22	Y2+ to X5+ and Y2- to X5-	K21	54	Y6+ to X5+ and Y6- to X5-	K53
23	Y2+ to X6+ and Y2- to X6-	K22	55	Y6+ to X6+ and Y6- to X6-	K54
24	Y2+ to X7+ and Y2- to X7-	K23	56	Y6+ to X7+ and Y6- to X7-	K55
25	Y3+ to X0+ and Y3- to X0-	K24	57	Y7+ to X0+ and Y7- to X0-	K56

26	Y3+ to X1+ and Y3- to X1-	K25	58	Y7+ to X1+ and Y7- to X1-	K57
27	Y3+ to X2+ and Y3- to X2-	K26	59	Y7+ to X2+ and Y7- to X2-	K58
28	Y3+ to X3+ and Y3- to X3-	K27	60	Y7+ to X3+ and Y7- to X3-	K59
29	Y3+ to X4+ and Y3- to X4-	K28	61	Y7+ to X4+ and Y7- to X4-	K60
30	Y3+ to X5+ and Y3- to X5-	K29	62	Y7+ to X5+ and Y7- to X5-	K61
31	Y3+ to X6+ and Y3- to X6-	K30	63	Y7+ to X6+ and Y7- to X6-	K62
32	Y3+ to X7+ and Y3- to X7-	K31	64	Y7+ to X7+ and Y7- to X7-	K63

MT-X750 Specifications

Specifications are valid at 23 °C unless otherwise noted.

Input Characteristics

Topology	2-wire, 8 × 8 matrix
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Maximum switching voltage	220V DC, 250V AC
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Maximum switching power (per channel)

AC	62.5 VA
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DC (30 V to 220 V)	60 W
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Maximum current (per channel)	2 A
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DC path resistance

Initial	<0.8 Ω
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End-of-life	≥1.8 Ω
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Relay operate time

Typical	3 ms
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Maximum	6 ms
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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)	0.3 _g _{rms} , 5 Hz to 500 Hz
Nonoperating (IEC 60068-2-6)	2.4 _g _{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
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Storage temperature	-20°C to 70 °C
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Operating humidity (IEC 60068-2-78)	10% RH to 90% RH, noncondensing
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Storage humidity (IEC 60068-2-78)	5% RH to 95% RH, noncondensing Pollution
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Degree	2
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Maximum altitude	2,000 m
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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。



MangoTree官网

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/>



Master视频教程

MT-DAQ上手指南:

<http://server.mangotree.cn:9900/WebFile/Downloads/上手指南/MT-DAQ/>



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DAQ视频教程

