

DataSheet

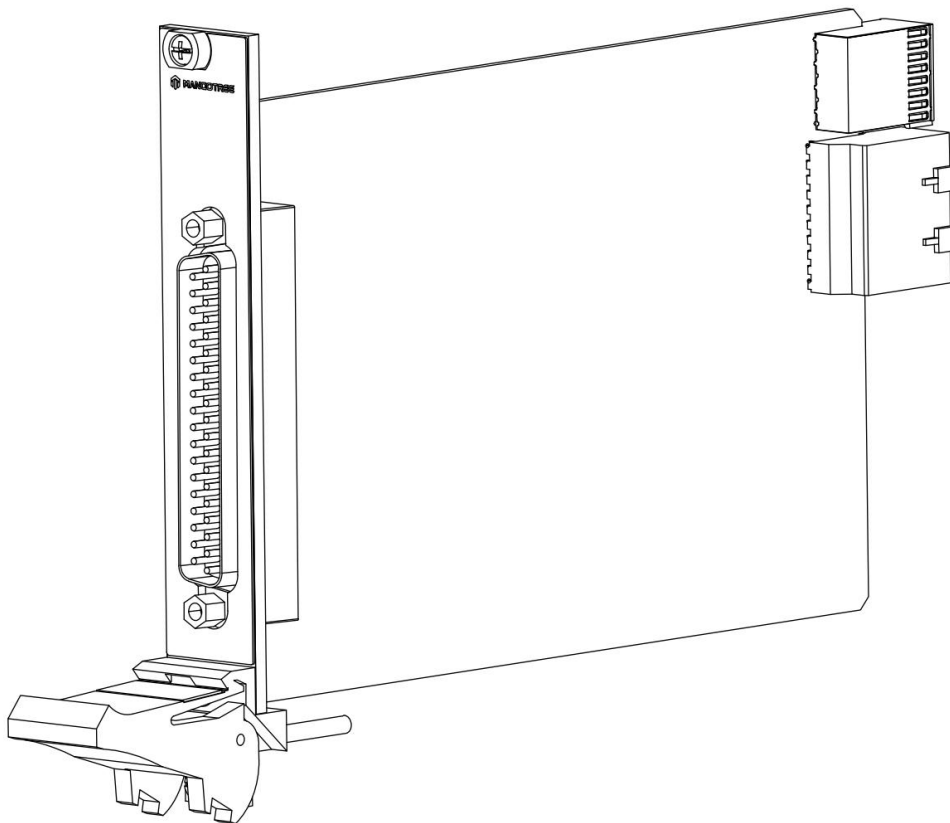
MT-X742

Matrix module, 1-wire,4×8, 2 banks, 250VAC/220VDC, 2A

This document contains the specifications for MT-X742.Specifications are typical at 25°C unless otherwise noted.

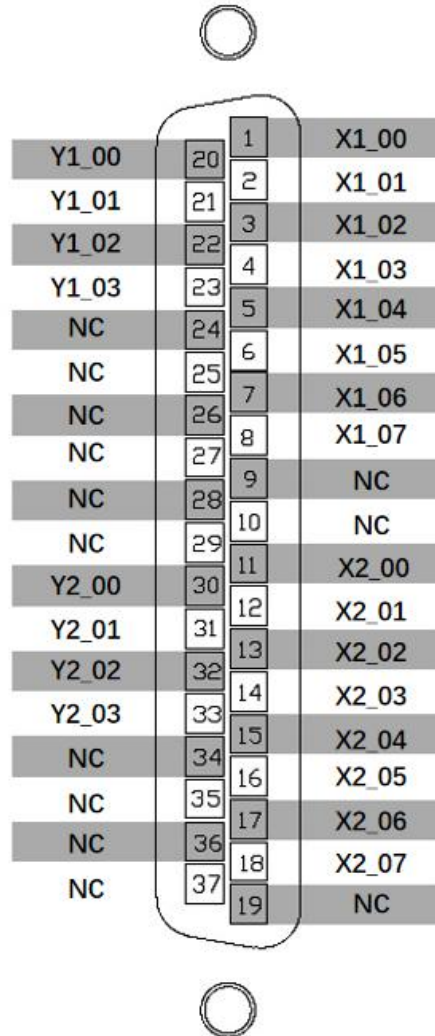


Caution Using the MT-X742 in a manner not described in this document may impair the protection the MT-X742 provides.

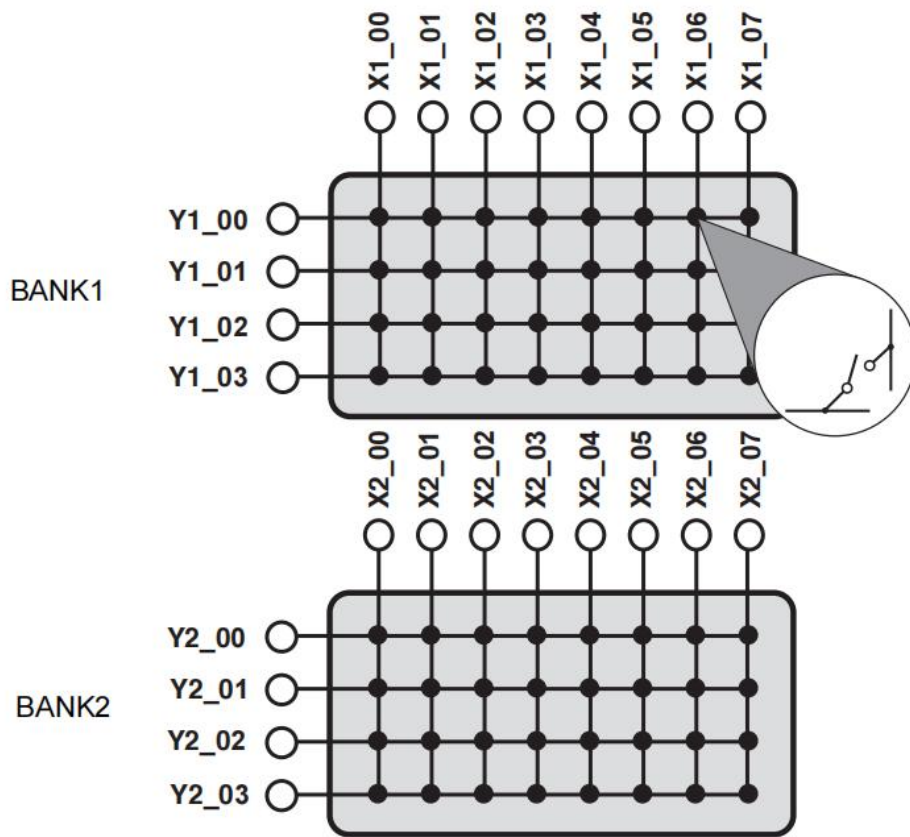


MT-X742 Connectivity

Pin definition of DSUB connector.



Hardware Diagram



NO.	Signal Path	Relay Number	NO.	Signal Path	Relay Number
1	Y1_00 to X1_00	K0	33	Y2_00 to X2_00	K32
2	Y1_00 to X1_01	K1	34	Y2_00 to X2_01	K33
3	Y1_00 to X1_02	K2	35	Y2_00 to X2_02	K34
4	Y1_00 to X1_03	K3	36	Y2_00 to X2_03	K35
5	Y1_00 to X1_04	K4	37	Y2_00 to X2_04	K36
6	Y1_00 to X1_05	K5	38	Y2_00 to X2_05	K37
7	Y1_00 to X1_06	K6	39	Y2_00 to X2_06	K38
8	Y1_00 to X1_07	K7	40	Y2_00 to X2_07	K39
9	Y1_01 to X1_00	K8	41	Y2_01 to X2_00	K40
10	Y1_01 to X1_01	K9	42	Y2_01 to X2_01	K41
11	Y1_01 to X1_02	K10	43	Y2_01 to X2_02	K42
12	Y1_01 to X1_03	K11	44	Y2_01 to X2_03	K43
13	Y1_01 to X1_04	K12	45	Y2_01 to X2_04	K44
14	Y1_01 to X1_05	K13	46	Y2_01 to X2_05	K45
15	Y1_01 to X1_06	K14	47	Y2_01 to X2_06	K46
16	Y1_01 to X1_07	K15	48	Y2_01 to X2_07	K47
17	Y1_02 to X1_00	K16	49	Y2_02 to X2_00	K48
18	Y1_02 to X1_01	K17	50	Y2_02 to X2_01	K49
19	Y1_02 to X1_02	K18	51	Y2_02 to X2_02	K50
20	Y1_02 to X1_03	K19	52	Y2_02 to X2_03	K51
21	Y1_02 to X1_04	K20	53	Y2_02 to X2_04	K52
22	Y1_02 to X1_05	K21	54	Y2_02 to X2_05	K53
23	Y1_02 to X1_06	K22	55	Y2_02 to X2_06	K54
24	Y1_02 to X1_07	K23	56	Y2_02 to X2_07	K55
25	Y1_03 to X1_00	K24	57	Y2_03 to X2_00	K56
26	Y1_03 to X1_01	K25	58	Y2_03 to X2_01	K57
27	Y1_03 to X1_02	K26	59	Y2_03 to X2_02	K58
28	Y1_03 to X1_03	K27	60	Y2_03 to X2_03	K59
29	Y1_03 to X1_04	K28	61	Y2_03 to X2_04	K60
30	Y1_03 to X1_05	K29	62	Y2_03 to X2_05	K61
31	Y1_03 to X1_06	K30	63	Y2_03 to X2_06	K62
32	Y1_03 to X1_07	K31	64	Y2_03 to X2_07	K63

MT-X742 Specifications

Specifications are valid at 23 °C unless otherwise noted.

Input Characteristics

Topology	1-wire, 4×8 matrix, 2 banks
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。



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

