

DataSheet

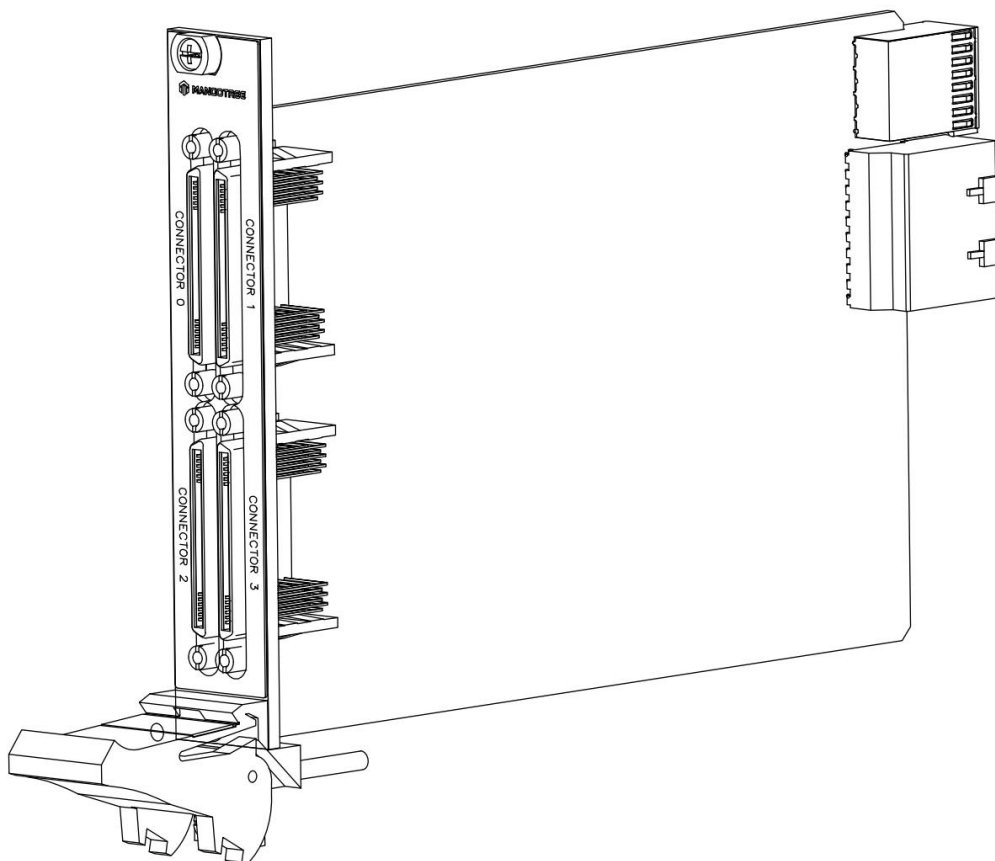
# MT-T573

24V,32 DI, 32DO, 7us Sinking DI, 8us Sourcing DO

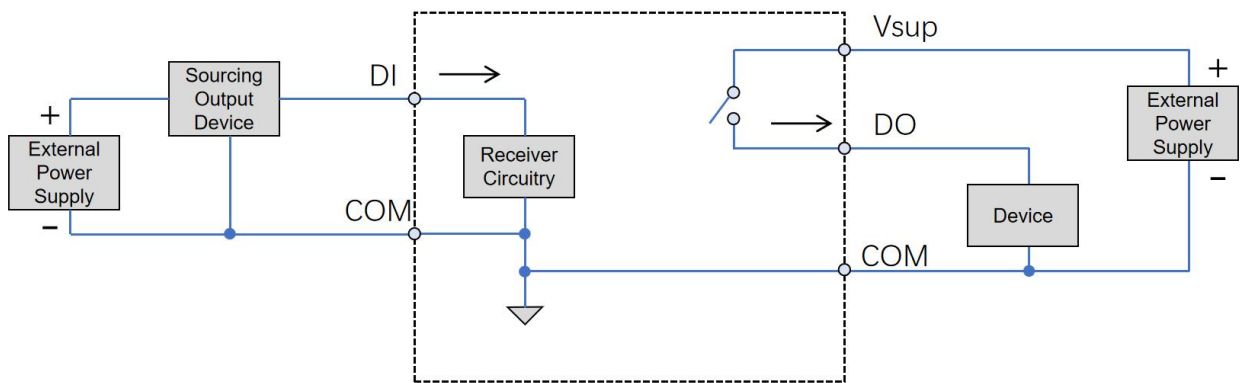
This document contains the specifications for MT-T573.Specifications are typical at 25°C unless otherwise noted.



**Caution** Using the MT-T573 in a manner not described in this document may impair the protection the MT-T573 provides.



# Input/Output Circuitry



There are thirty two digital input channels and thirty two digital output channels. All channels are internally referenced to COM.

## MT-T573 Specifications

The following specifications are typical for the range -40 °C to 70 °C unless otherwise noted. All voltages are relative to COM unless otherwise noted.

### Input/Output Characteristics

Number of channels 32 DI channels, 32 DO channels

#### Digital Input

Input type Sinking

#### Digital logic levels

##### OFF state

Input voltage  $\leq 5V$

Input current  $\leq 150\mu A$

##### ON state

Input voltage  $\geq 10V$

Input current  $\geq 330\mu A$

##### Hysteresis

Input voltage 2V minimum

Input current	60uA minimum
Input impedance	30 k $\Omega$ $\pm$ 5%
I/O protection	
Input voltage	
8 channels	60 V DC maximum
16 channels	30 V DC maximum
Reverse-biased voltage	
8 channels	-60 V DC maximum
16 channels	-30 V DC maximum
Update/transfer time	7 us maximum
<b>Digital Output</b>	
Output type	Sourcing
Output voltage(V)	V <sub>sup</sub> – (I * R)
External power supply voltage range	5V DC to 30V DC
Continuous output current(I)	
Per channel	1 A maximum, on up to 32 channels
Module(sum of all channels)	32 A maximum
Output impedance(R)	0.07 $\Omega$ maximum
Reversed-voltage protection	None
I/O protection voltage	30 VDC maximum
Maximum update rate	8 us maximum
Propagation delay	1us maximum

## 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.

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### Operating vibration

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Random (IEC 60068-2-64)	5 g <sub>rms</sub> , 10 Hz to 500 Hz
Sinusoidal (IEC 60068-2-6)	5 g, 10 Hz to 500 Hz
Operating shock (IEC 60068-2-27)	30 g, 11 ms half sine; 50 g, 3 ms half sine; 18 shocks at 6 orientations

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## Environmental

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

Operating temperature	-40 °C to 70 °C (IEC 60068-2-1, IEC 60068-2-2)
Storage temperature	-40 °C to 85 °C (IEC 60068-2-1, IEC 60068-2-2)
Ingress protection	IP40
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	4,000 m

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Indoor use only.

# 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:

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



Master上手指南

MT-Master视频教程:

<https://server.mangotree.cn:9900/WebFile/Downloads/视频教程/MT-Master/>



Master视频教程

MT-DAQ上手指南:

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



DAQ上手指南

MT-DAQ视频教程:

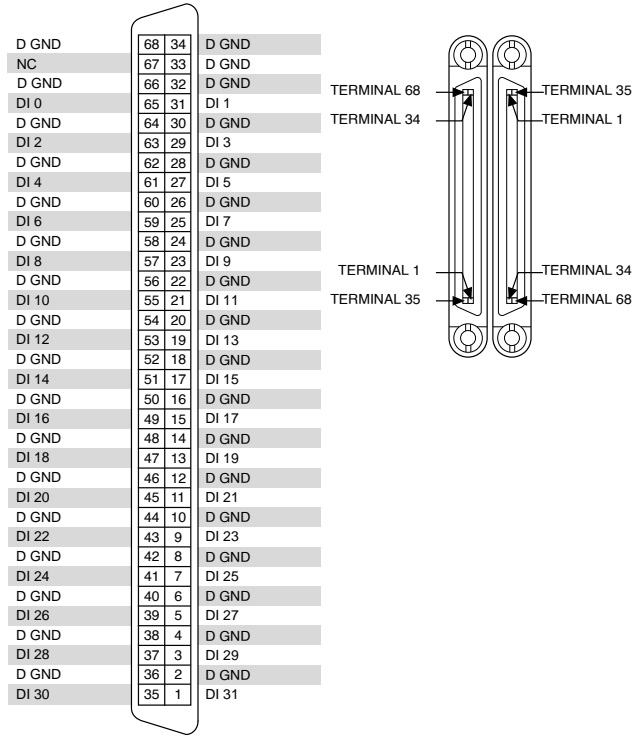
<https://server.mangotree.cn:9900/WebFile/Downloads/视频教程/MT-DAQ/>



DAQ视频教程

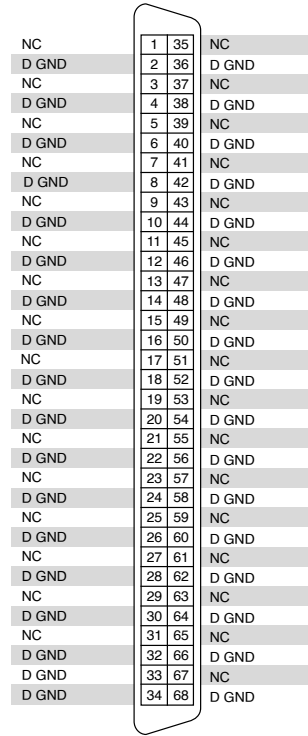
# MT-T573 Pinout

CONNECTOR 0



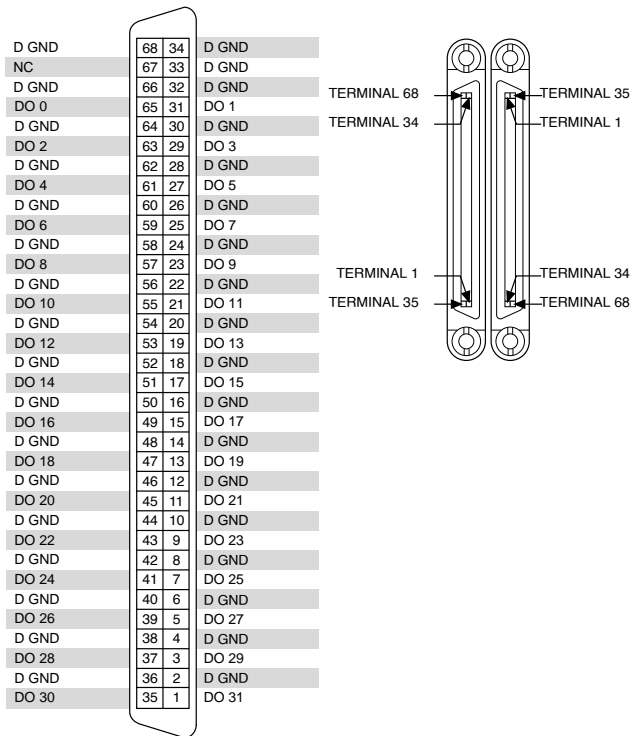
NC = No Connect

CONNECTOR 1



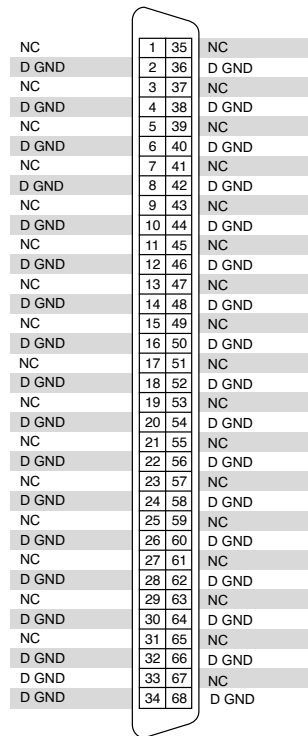
NC = No Connect

CONNECTOR 2



NC = No Connect

CONNECTOR 3



NC = No Connect

# Dimensions

