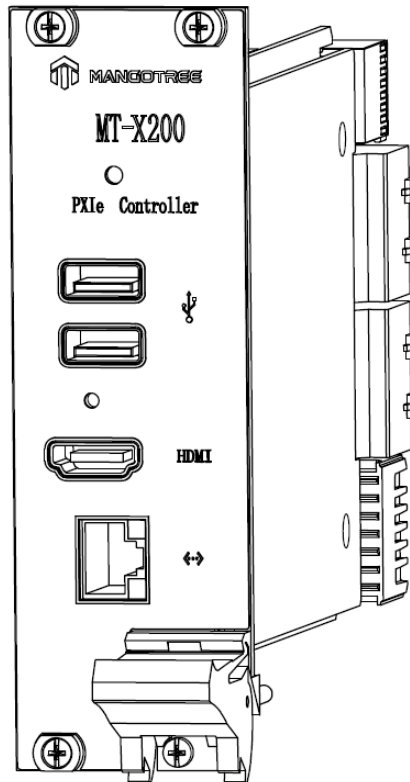SPECIFICATIONS

MT-X200

MT-X200 PXIe Quad-Core Embedded Controller

This document contains the specifications for MT-X200.

⚠️ **Caution**   Using the MT-X200 in a manner not described in this document may impair the protection the controller provides.
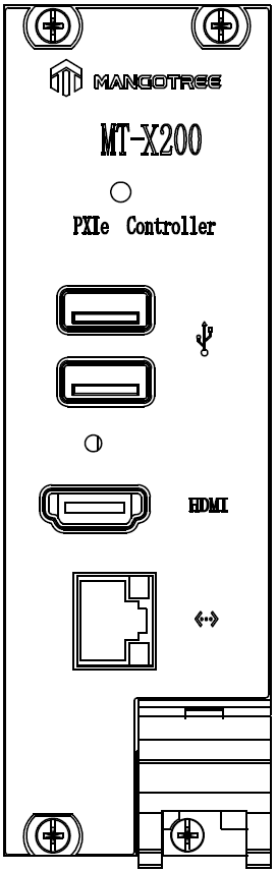
MANGOTREE

Features

MT-X200 PXIe Quad-Core	
CPU	Intel® Pentium® Silver J5040 Processor
Number of cores	4 Cores,4 Threads
Base Frequency	2.00 GHz
Max Turbo Frequency	3.20 GHz
Cache	4MB
Memory	4GB DDR3L
Storage	128GB M.2 Sata
Ethernet	One 10/100 BaseT ports
PXI Express 4 Link Configuration	x1, x1, x1, x1
Video	1 HDMI Port
USB2.0	2
Installed Operating System	Linux RT or Window 10

Front Panel

The following figure shows the front panel layout of MT-X200 PXIe Controller.

Figure 1. MT-X200 PXIe Controller

Electrical

Note   Does not include any attached devices.

Voltage(V)	Current(Amps) Typical	Current(Amps) Maximum
+3.3 V	0.34 A	0.42 A
+5 V	0.54 A	0.73 A
+12V	1.10 A	1.50 A
+5 V_{Aux}	0.10 A	0.20A

Physical

Board dimensions	Two-wide 3U PXI Express module
Slot requirements	One system slot plus one controller expansion slot
Compatibility	Fully compatible with *PXI Express Specification 1.0*
Weight	421g typical

Shock and Vibration

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

Operating shock	30g peak,half-sine,11ms
Random vibration	
Operating	0.3 g_{rms}, 5 Hz to 500 Hz
Nonoperating	2.4 g_{rms}, 5 Hz to 500 Hz

Environmental

Pollution Degree	2
Maximum altitude	2,000 m

Indoor use only.

Operating Environment

Ambient temperature range	5 °C to 50 °C
Extended temperature option	0 °C to 55 °C
Relative humidity range	10% to 90%,noncondensing

Storage Environment

Ambient temperature range	-40 °C to 65 °C
Extended temperature option	-40 °C to 71 °C
Relative humidity range	5% to 95%,noncondensing

Safety

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 $C\epsilon$

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)