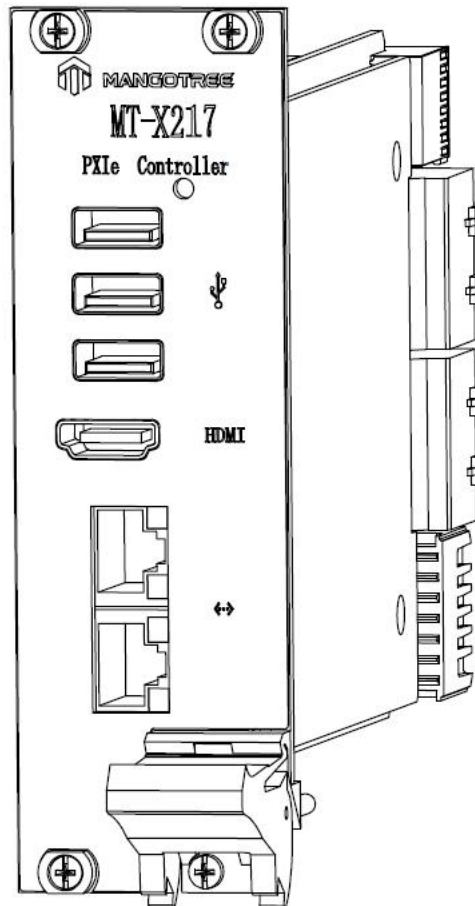


SPECIFICATIONS

MT-X217

MT-X217 PXIe Quad-Core Embedded Controller



This document contains the specifications for MT-X217.



Caution Using the MT-X217 in a manner not described in this document may impair the protection the controller provides.

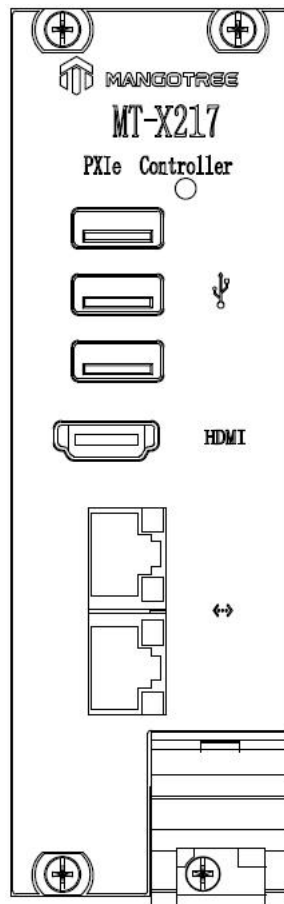
Features

MT-X217 PXIe Quad-Core	
CPU	Intel® Core™ i7-10510U Processor
Number of cores	4 Cores,8 Threads
Base Frequency	1.8 GHz
Max Turbo Frequency	4.90 GHz
Cache	8MB
Memory	16GB
Storage	1TB M.2 NVME
Ethernet	Two 1000 BaseT ports
PXI Express 4 Link Configuration	x1, x1, x1, x2
Video	1 HDMI Port
USB2.0	1
USB3.0	2
Installed Operating System	Linux RT or Window 10

Front Panel

The following figure shows the front panel layout of MT-X217 PXIe Controller.

Figure 1. MT-X217 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 <i>PXI Express Specification 1.0</i>

Weight	421g typical
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Shock and Vibration

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

Operating shock	30g peak, half-sine, 11ms
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Random vibration

Operating	0.3 g _{rms} , 5 Hz to 500 Hz
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Nonoperating	2.4 g _{rms} , 5 Hz to 500 Hz
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Environmental

Pollution Degree	2
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Maximum altitude	2,000 m
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Indoor use only.

Operating Environment

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

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

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)