



MC-5150-AC/DC Series Quick Installation Guide

Second Edition, January 2012

Overview

The MC-5150-AC/DC computers use the Intel® Core™ i5 520E processor and come with 4 serial ports, 2 Gigabit Ethernet ports, 6 USB hosts, and 12 NMEA ports. The computers offer high performance and versatile peripherals for industrial applications.

Package Checklist

Before installing the MC-5150-AC/DC, verify that the package contains the following items:

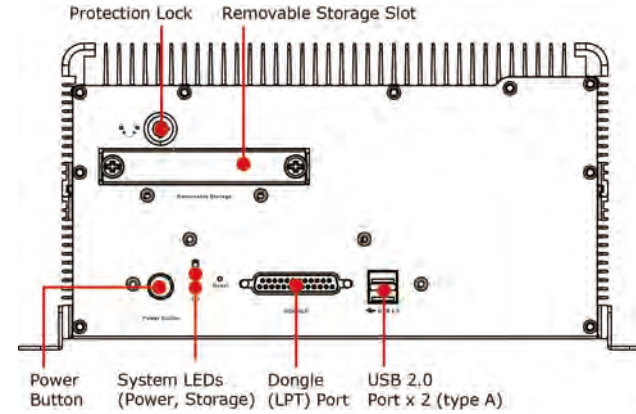
- 1 MC-5150-AC/DC embedded computer
- 2 removable storage protection keys
- Terminal block for power input (DC model only)
- 12 terminal blocks for NMEA ports
- Documentation and driver CD
- Quick Installation Guide (printed)
- Warranty card

NOTE: Please notify your sales representative if any of the above items are missing or damaged.

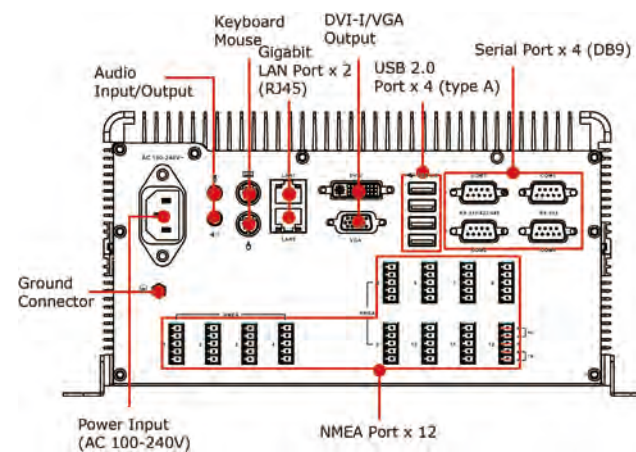
MC-5150-AC/DC Panel Layout

The following figures show the panel layouts of the MC-5150-AC/DC.

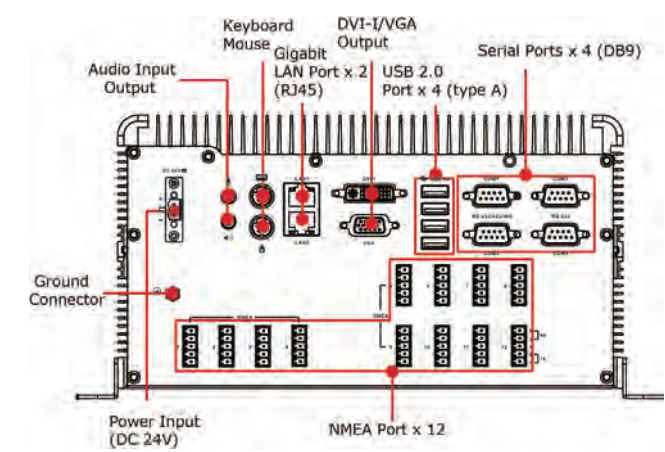
MC-5150-AC/DC Front View



MC-5150-AC Rear View



MC-5150-DC Rear View



LED Indicators

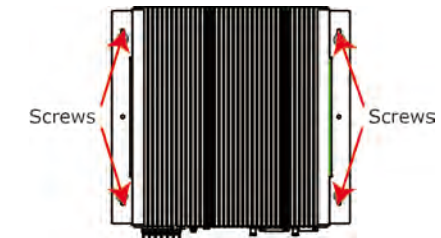
The following table describes the LED indicators located on the front panel of the MC-5150-AC/DC.

LED Name	LED Color	LED Function
Power	Green	Power is on and functioning normally
	Off	Power is off or power error exists
Storage	Red (on)	SSD card is inserted and detected
	Red (blinking)	SSD card is reading/writing
	Off	No activity
LAN	Green	100 Mbps Ethernet mode
	Yellow	1000 Mbps (Gigabit) Ethernet mode
	Off	No activity or 10 Mbps Ethernet mode

Installing the MC-5150-AC/DC

Wall or Cabinet Mounting

The MC-5150-AC/DC has been pre-installed with two brackets on both ends of the computer. Use two screws per side to attach the MC-5150-AC/DC to a wall or cabinet.



P/N: 1802051502011

Connector Description

Power Connector

The AC model has a 100 to 240 VAC power input, and the DC model has a 24 VDC power input (via the terminal block). If power is supplied properly, the Power LED will light up. The OS is ready when the Ready LED lights up to a solid green.

Grounding the MC-5150-AC/DC

Grounding and wire routing help to limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting the power.



ATTENTION

This product is intended to be mounted to a well-grounded mounting surface, such as a metal panel.

Earth Ground: Both the AC and DC models have earth ground connectors on the rear panel for grounding. There is an earth ground mark next to the connector. Connect the EG wire to an appropriate grounded metal surface.

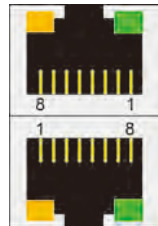
VGA and DVI-I Outputs

The MC-5150-AC/DC comes with a D-Sub 15-pin female connector on the front panel to connect a VGA CRT monitor, and has a DVI-I connector on the front panel to connect the panel to a DVI-I cable.

Ethernet Ports

The 10/100/1000 Mbps Ethernet ports use RJ45 connectors.

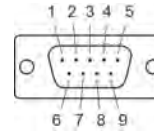
Pin	10/100 Mbps	1000 Mbps
1	ETx+	TRD(0)+
2	ETx-	TRD(0)-
3	ERx+	TRD(1)+
4	–	TRD(2)+
5	–	TRD(2)-
6	ERx-	TRD(1)-
7	–	TRD(3)+
8	–	TRD(3)-



Serial Ports

The serial ports use DB9 connectors. COM1 and COM2 support RS-232, RS-422, and RS-485, and COM3 and COM4 support RS-232.

Pin	RS-232	RS-422	RS-485 (4-wire)	RS-485 (2-wire)
1	DCD	TxDA(-)	TxDA(-)	–
2	RxD	TxDB(+)	TxDB(+)	–
3	TxD	RxDB(+)	RxDB(+)	DataB(+)
4	DTR	RxDA(-)	RxDA(-)	DataA(-)
5	GND	GND	GND	GND
6	DSR	–	–	–
7	RTS	–	–	–
8	CTS	–	–	–



In addition, 12 NMEA ports are located on the rear panel of the MC-5150-AC/DC computers.

Removable Storage Trays

The MC-5150-AC/DC computers have removable storage trays on the front panel, with an SSD drive pre-installed. You may remove the SSD drive and replace it with your own hard disk drive. To provide better system safety, protection keys are provided to lock the tray.

USB Hosts

The MC-5150-AC/DC has six USB 2.0 full speed hosts that use a type A connector. The port supports keyboard and mouse, and can also be used to connect a FlashDisk for storing large amounts of data.

Audio Interface

The MC-5150-AC/DC comes with an audio input and an audio output, allowing users to connect a speaker or an earphone.

Reset Button

Press the “Reset Button” on the front panel of the MC-5150-AC/DC to reboot the system automatically. The Ready LED will blink on and off for the first 5 seconds, and then maintain a steady glow once the system has rebooted.

Real-time Clock

The MC-5150-AC/DC’s real-time clock is powered by a lithium battery. We strongly recommend that you do not replace the lithium battery without help from a qualified Moxa support engineer. If you need to change the battery, contact the Moxa RMA service team at http://www.moxa.com/rma/about_rma.aspx.



ATTENTION

There is a risk of explosion if the battery is replaced with an incorrect type of battery.

Powering on the MC-5150-AC/DC

To power on the MC-5150-AC/DC, connect the “terminal block to power jack converter” to the MC-5150-DC’s DC terminal block on the rear panel and then connect the power adaptor, or plug in the the power cord (for the AC model). Press the Power Switch button to turn on the computer. It takes about 30 seconds for the system to boot up. Once the system is ready, the Power LED will light up.

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