



MC-7270-DC-CP-T Series

Quick Installation Guide

First Edition, December 2014

Overview

The MC-7270-DC-CP-T computer uses the Intel® Core™ CPU processor and comes with 4 serial ports, 4 Gigabit Ethernet ports, and 6 USB hosts. The computer offers high performance and versatile peripherals for industrial applications.

Package Checklist

Before installing the MC-7270-DC-CP-T, verify that the package contains the following items:

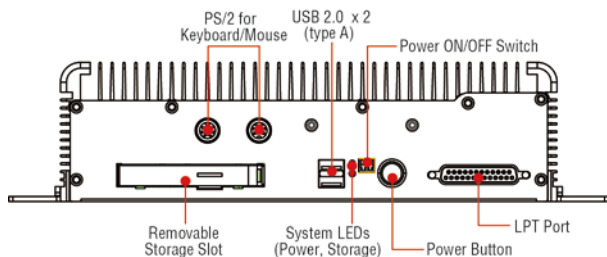
- 1 MC-7270-DC-CP-T embedded computer
- 2 removable storage protection keys
- 1 2-pin terminal block for DC power input
- 1 2-pin terminal block for power ON/OFF switch
- Hard disk installation kit
- Documentation and driver CD
- Quick installation guide (printed)
- Warranty card

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

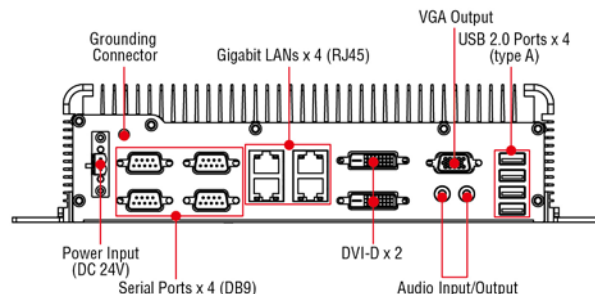
MC-7270-DC-CP-T Panel Layout

The following figures show the panel layouts of the MC-7270-DC-CP-T.

MC-7270-DC-CP-T Front View



MC-7270-DC-CP-T Rear View



LED Indicators

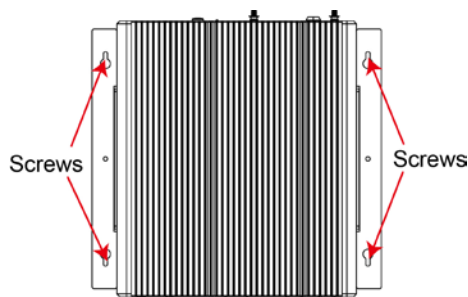
The following table describes the LED indicators located on the front panel and the LAN ports of the MC-7270-DC-CP-T.

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

Installing the MC-7270-DC-CP-T

Wall or Cabinet Mounting

The MC-7270-DC-CP-T comes with two brackets pre-installed on both ends of the computer. Use two screws per side to attach the MC-7270-DC-CP-T to a wall or cabinet. We recommend using size M4 or larger screws.



Restricted Access Location

This equipment is intended to be used in restricted access locations, such as a computer room, with access limited to service personnel or users who have been instructed on how to handle the metal chassis of equipment that is so hot that special protection may be needed before touching it. The location should only be accessible with a key or through a security identity system.



WARNING

External metal parts of this equipment are extremely hot! Before touching the equipment, you must take special precautions to protect your hands and body from serious injury.

Connector Description

Power Connector

The MC-7270-DC-CP-T 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 is a steady green.

Grounding the MC-7270-DC-CP-T

Proper grounding and wire routing help limit the effects of noise from electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting the power. There is a ground symbol next to the connector. Connect the ground wire to an appropriate grounded metal surface.



ATTENTION

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

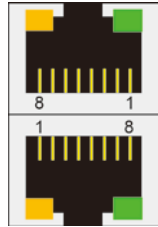
VGA and DVI-D Outputs

The MC-7270-DC-CP-T comes with a DB-15 female connector on the rear panel to connect a VGA monitor, and has two DVI-D connectors on the rear panel to connect displays over a Digital Visual Interface.

Ethernet Ports

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

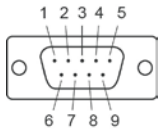
Pin	10 / 100 Mbps	1000 Mbps
1	ETx+	TRD(0)+
2	ETx-	TRD(0)-
3	ERx+	TRD(1)+
4	—	TRD(2)+
5	—	TRD(2)-
6	ERx-	TRD(1)-
7	—	TRD(3)+
8	—	TRD(3)-



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	—	—	—



Removable Storage Trays

The MC-7270-DC-CP-T computer has a removable storage device tray on the front panel. You may install an SSD storage drive for storage expansion. In addition, an internal SATA expansion slot for additional drives is also available on the bottom of the computer. You may install either a hard disk drive or an SSD in the storage expansion slot; however, for high-vibration environments, Moxa recommends using an SSD for greater system stability. To increase system safety, protection keys are provided to lock the front panel's removable tray.

Power ON/OFF Switch

The Power ON/OFF switch functions like the Power button on the front panel of the MC-7270-DC-CP-T. The Power ON/OFF switch enables you to turn the MC-7270-DC-CP-T on or off remotely from a cabinet control desk.

To use the Power ON/OFF switch, connect a 2-pin terminal block to the switch. We recommend that you use a tactile switch instead of a push button switch.

USB Hosts

The MC-7270-DC-CP-T 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-7270-DC-CP-T comes with an audio input and an audio output, allowing users to connect a speaker or an earphone.

Real-time Clock

The MC-7270-DC-CP-T'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 unapproved type of battery.

Powering on the MC-7270-DC-CP-T

To turn on the MC-7270-DC-CP-T, connect a 24 VDC power source to the DC terminal block on the MC-7270-DC-CP-T. After you connect the power source, the computer automatically starts. You do not need to press the Power button.

It takes up to 30 seconds for the MC-7270-DC-CP-T to complete the boot process. When the system is ready, the Power LED turns steady on.

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