MC-7400 Series Computer Windows User's Manual

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MC-7400 Series Computer Windows User's Manual

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Table of Contents

1.	Introduction	
	Software Components	1-2
2.	Software Initialization	
	Overview	
	Initializing User Settings	2-2
3.	Utilities	
•	Serial Interface Utility	
4.	Examples	
	Watchdog Function	
	Enabling the Watchdog Function	
	Serial Interface Mode DIO	
	DIO	
5.	System Recovery	
	Recovery Environment	
	Recovery Procedure	
	Saving the System Image to a USB Device	5-9

Thank you for buying Moxa's MC-7400 Series computer. The MC-7400 computer comes with the Windows 10 LTSB software platform, providing a simple and familiar development environment for various industrial applications.

The following topics are covered in this chapter:

G Software Components

Software Components

Refer to the following content for the software components of the Windows 10 LTSB preinstalled on the MC-7400 Series computer.

Windows 10 LTSB

Core OS:

- 64-bit support
- Remote client
- Remote procedure call

Applications and Services Development:

- .Net Framework 3.5
- .Net Framework 4.6
- Remote Desktop
- COM+ application support
- MSMQ

Internet Services:

- Internet Explorer 11
- IIS 10.0

File Systems and Data Storage:

- Windows data access components
- Windows backup and restore

Diagnostics:

- Common diagnostic tools
- Problem reports and solutions
- Windows Memory Diagnostic tool

Graphics and Multimedia:

- DirectX and Windows Device Experience
- Photo Viewer
- Remote media streaming
- Windows Media Player

Management:

- Local Group Policy Editor
- Group Policy Management
- Windows Management Instrument (WMI)
- Windows Update

Networking:

- Extensible Authentication Protocol (EAP)
- Internet Authentication Service
- Telnet Server
- Domain Services
- Network and Sharing Center
- Quality of Service
- Remote Access Service (RAS)
- Telephony API Client
- Windows Firewall
- iSCSI Initiator

Security:

- Credential Roaming Service
- Credentials and certificate management
- Windows Authorization Manager (AZMAN)
- Windows Security Center
- Active Directory Rights Management
- Security Base
- Encrypted File System (EFS)
- Data Recovery Agent (DRA)
- Local security policy

Embedded Features:

- Message box default reply
- Registry filter
- WSDAPI for .NET.

Embedded Self-Health Diagnostic Software:

• SNMP-based remote scripting layer for monitoring, reporting, and control

Software Initialization

This chapter describes how to initialize the system settings on the MC-7400 Series computer when you boot up the computer for the first time.

The following topics are covered in this chapter:

- Overview
- Initializing User Settings

Overview

Like most laptop computers, you will need to first create a user account and initialize the user settings for the MC-7400 embedded computer to work.

Initializing User Settings

Follow these instructions to create a new user account.

1. When you boot up the embedded computer for the first time, select your home region, preferred language, keyboard layout, and time zone.

Hi there
What's your home country/region?
United States 🗸
What's your preferred app language?
English (United States)
What keyboard layout would you like to use?
US Vhat time zone are you in?
(UTC-08:00) Pacific Time (US & Canada)
Ģ

- 2. Click Next.
- 3. Select Use Express settings.

Get going fast
Change these at any time (scroll to see more). Select Use Express settings to:
Personalize your speech, byping, and inking input by sending your input data to Microsoft. Let Microsoft use that info to improve the suggestion and recognition platforms.
Let Windows and apps request your location, including location history, turn on Find My Device, and use your a sherining D to personalize your experiences. Send Microsoft location data to improve location services.
Help protect you from malicious web content and use page prediction to improve mading, speed up browning, and make your overall experience better in Windows browners. Your browning data will be set to Microsoft.
Automatically connect to suggested open hotspots. Not all networks are secure.
Get updates from and send updates to PCs on the Internet. Send full diagnostic and usage data to Microsoft.
Connect with friends. Let Skype use your contacts and verify your phone number. SMS charges may apply.
Back Customize Use Express settings

Enter a username for this computer. Type the password, retype the password. In addition, you may also type a password hint that can be used when you forget your password.
 If you do not want to set the password, leave the field blank and click Next.

Create an account for t	this PC	
If you want to use a password, choose something others to guess.	that will be easy for you to remember but hard for	
Who's going to use this PC?		
Username Make it secure.		
Enter password		
Re-enter password Password hint		
Password fille		
Ģ		

- 5. Click Next.
- 6. Wait for the computer to process the new user account information and then restart the computer.



This chapter describes the utilities supported on the MC-7400 Series computer.

The following topics are covered in this chapter:

Serial Interface Utility

Serial Interface Utility

The Serial Interface utility can be used to configure different serial modes on the MC-7400 computer. The MC-7400 supports the serial modes **RS232**, **RS485-2-wire**, and **RS422/RS485-4-wire**. COM1 and COM2 are RS-232/422/485 and COM3 and COM4 are RS-232 ports.

Follow these steps to change the serial interface mode settings.

1. From the Start menu, Click **All apps >Moxa >mxSetSerialInterface**.



2. In the Port setting, select the type of port (COM1/COM2) that you want to set.



3. Select the serial mode that you want to use in the **Mode** setting.

🖳 Set Ser	ial I	_		×
Port:	COM1		~	
Mode:	RS232		~	
	RS485 RS422	2 wires / RS485	4 wires	L
0	RS232			

4. Click OK.

4 Examples

The following topics are covered in this chapter:

- Watchdog Function
- Serial Interface Mode
- DIO

Watchdog Function

You can use the watchdog program included in the MC-7400 software DVD to implement the watchdog function.

Enabling the Watchdog Function

To enable the watchdog function on your MC-7400, do the following:

 Create an example\Watchdog folder on your system and copy the following files from the product software DVD:

mxdwg.dll: <Software DVD>\Example\[Library]\Release\x64\mxdwg\
Watchdog.exe: <Software DVD>\Example\Release\x64\Watchdog\

2. Run the Watchdog.exe program.

You need to press Enter every 10 seconds to prevent the system from rebooting.

3. To stop the watchdog function and exit the program, press **q**.

```
Administrator: Command Prompt
C:\Users\Moxa\Desktop\example\Watchdog>Watchdog.exe
Press "ENTER" in 10 seconds
, 'q' to exit
Press "ENTER" in 10 seconds
, 'q' to exit
Press "ENTER" in 10 seconds
, 'q' to exitq
C:\Users\Moxa\Desktop\example\Watchdog>_
```

Serial Interface Mode

The UartMode.exe script reports on and controls the serial interface mode.

To enable the serial interface mode on your MC-7400, do the following:

 Create an example\UartMode folder on the desktop and copy the following files from the product software DVD.

mxsp.dll: <Software DVD>\Example\[Library]\Release\x64\mxsp\

UartMode.exe: <Software DVD>\Example\Release\x64\UartMode\

2. Run the UartMode.exe program.



3. Type **1** to display the current serial interface settings.

4. Type 2 to set the serial interface. Follow the on-screen instructions.

DIO

This script reports on and controls the state of the DIs and DOs, switching them between high and low.

To enable the DIO script, do the following:

1. Create an **example\DIO** folder on the desktop and copy the following files from the product software DVD.

mxgpio.dll: <Software DVD>\Example\[Library]\Release\x64\mxgpio

DIO.exe: <Software DVD>\Example\Release\x64\DIO

2. Run the **DIO.exe** program.

C:\Users	\Moxa\Desktop\example\DIO\DIO.exe
	Program (0) Exit Program (1) Set DOUT value (2) Display both DIN and DOUT (3) Test Program

3. Type **2** to display the current DIO status. Follow the on-screen instructions.

C:\Users\Moxa\Desktop\example\DIO\DIO.exe

DIO Test	Program (0) Exit Program (1) Set DOUT value (2) Display both DIN and DOUT (3) Test Program
Din1 = 1 Din2 = 1 Din3 = 1 Din4 = 1 Din5 = 1 Din6 = 1	<pre>, Dout0 = 1 , Dout1 = 1 , Dout2 = 1 , Dout3 = 1 , Dout5 = 1 , Dout5 = 1 , Dout6 = 1 , Dout7 = 1 Program (0) Exit Program (1) Set DOUT value (2) Display both DIN and DOUT (3) Test Program</pre>

4. Type 1 to set DOUT value. Follow the on-screen instructions and enter the target port and value.



5. Type **2** to check the DIO status.

```
C:\Users\Moxa\Desktop\example\DIO\DIO.exe
   DIO Test Program

(0) Exit Program
(1) Set DOUT value
(2) Display both DIN and DOUT
(3) Test Program

   Input the Port Number (0 \sim 7) =
   Input the value (0 or 1) =
    Set digital output success!
  Set digital output satters:

DIO Test Program

(0) Exit Program

(1) Set DOUT value

(2) Display both DIN and DOUT

(3) Test Program
   Din0 = 0 , Dout0 = 0
   Din1 = 1 , Dout1 = 1
Din2 = 1 , Dout2 = 1
   Din2 = 1 , Dout2
Din3 = 1 , Dout3
Din4 = 1 , Dout4
Dins-
Din4 = 1 , Dut5 = 1
Din5 = 1 , Dout5 = 1
Din7 = 1 , Dout6 = 1
Di0 Test Program
(0) Exit Program
(1) Set DOUT value
(2) Display both DIN and DOUT
(3) Test Program
                                        1
```

Type **3** to run the DIO test program and specify the number of tests. 6. After the test program runs a test report is shown on the screen (100 times * 8 ports).



System Recovery

This chapter describes the recovery process in the event of system instability.

The following topics are covered in this chapter:

- **D** Recovery Environment
- Recovery Procedure
- Saving the System Image to a USB Device

Recovery Environment

The recovery environment includes a PC, a MC-7400 computer, and a bootable USB disk with the recovery programs and the system image file.

NOTE The USB disk should have at least 8 GB free space.



Recovery Procedure

Step 1: Prepare your USB device

- 1. Format the USB disk to the **FAT32** file system.
- Run the tuxboot-windows-23.exe program from the <Software DVD>\recovery folder, then select Pre Download, and then click "...".

I Tuxboot	
On-Line Distribution donezilla_live_stable	Update
Clonezilla	
Homepage: http://donezilla.org/ Description: CloneZilla live is a distribution used for disk backup and imaging. The stable branch of Cl are based on Debian	lonezilla live
Install Notes: CloneZilla live is booted and run in live mode; no installation is required to use it. Download Path: <u>Clonezilla Live Stable at SourceForge</u>	
Pre Downloaded ISO	
Show All Drives (Use with Care) Save ISO file IV MD5 Check	
Type: USB Drive ▼ Drive: D:\ ▼ OK	Cancel

3. Select the ISO file from the <Software DVD>\recovery folder.

Open Disk Image File						x	
Softwared	CD			• \$	Search softwareCD		٩
Organize 🔻 New folde	er						?
☆ Favorites	Name	Date modified	Туре	Size			
Nesktop	🕑 2.5.0-5-i686-pae-Windows_v1.0	1/25/2017 3:31 PM	Disc Image File	301,656 KB			
Downloads							
Recent Places							
📜 Libraries							
Documents							
Music Pictures							
Videos							
I Computer							
PATRIOT (D:)							
📬 Network							
File n	ame: 2.5.0-5-i686-pae-Windows_v1.0			- A	II Files (*.iso *.zip *.im	a * az * -	_
riie <u>n</u>	anne, 2.3.0-3-1000-pae-windows_V1.0			•			-
				L	Open 🔻	Cancel	

4. Select **USB Drive** type, select a **Drive**, and then click **OK** to continue.



The boot files will be copied to your USB device.

Tuxboot	- • ×
1. Downloading Files (Done)	
2. Extracting and Copying Files (Current)	
2. Extracting and copying thes (currenty	
3. Installing Bootloader	
4. Installation Complete, Reboot	
Extracting files, please wait	
Archive: C:\Users\moxa\Desktop\softwareCD\2.5.0-5-i686-pae-Windows_v1.0.iso	
Source: live \disk_win7.sh (4721 B)	
Destination: D: \ive \disk_win7.sh	
Extracted: 11 of 51 files	
	21%

5. When finished, click **Exit** to stop the program.

Tuxboot	- • ×
1. Downloading Files (Done)	
2. Extracting and Copying Files (Done)	
3. Installing Bootloader (Done)	
4. Installation Complete, Reboot (Current)	
After rebooting, select the USB boot option in the BIOS boot menu. Reboot now?	
Reboot Now	Exit

 Copy the os_image directory from the <Software DVD>\recovery folder to the \home\partimag\ folder on the USB device.

The USB disk is now ready for use in the recovery process.

Step 2: Boot from the USB disk

You will need to select the specific USB disk to boot from.

- 1. Turn on the computer and press **F2** when you hear the beep sound to enter the BIOS setup menu.
- 2. Select **Boot Manager** and press **Enter** to continue.

Front	Front Page		
Front Page			
Continue	This selection wil		
▶Boot Manager	Manager		
▶Boot From File			
▶Setup Utility			
▶Intel(R) Management Engine BlOS Extension			

3. Select a **USB device** on the computer and press **Enter** to continue to boot from USD device.

Boot Manager
Boot Option Menu Legacy Hard Drive INTEL SSDSC2BB080G6 Legacy USB SanDisk SanDisk Ultra EFI Boot Devices EFI USB Device (SanDisk SanDisk Ultra)
↑ and ↓ to change option, ENTER to select an option, ESC to exit

Step 3: Restore the system from USB device

After select the USB device, the system will boot from the USB disk. The pre-installation Environment and the recovery utility will displayed.

1. Select clonezilla live restore disk.



2. Wait for the USB boot process to finish.

Command (m for help): The partition table has been altered. Calling ioctl() to re-read partition table. Syncing disks.
Warning: Unable to open ∕dev/sr0 read–write (Read–only file system). ∕dev/sr0 has been opened read only.
Warning: Unable to open /dev/srO read–write (Read–only file system). /dev/srO has been opened read only.
Disk /dev/sda: 20 GiB, 21474836480 bytes, 41943040 sectors Units: sectors of 1 * 512 = 512 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes Disklabel type: dos Disk identifier: 0x469e8113
Device Boot Start End Sectors Size Id Type /dev/sda1 2048 1026047 1024000 500M 7 HPFS/NTFS/exFAT /dev/sda2 1026048 41943039 40916992 19.5G 7 HPFS/NTFS/exFAT
Disk /dev/sdb: 14.8 GiB, 15846080512 bytes, 30949376 sectors Units: sectors of 1 * 512 = 512 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes Disklabel type: dos Disk identifier: 0x00000000
Device Boot Start End Sectors Size Id Type /dev/sdb1 * 2048 30949375 30947328 14.8G c W95 FAT32 (LBA)
Disk /dev/loop0: 208.9 MiB, 218980352 bytes, 427696 sectors Units: sectors of 1 * 512 = 512 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes

3. Enter **y** to continue the restore process.

Do NOT create partition table on the client harddisk! /usr/share/drbl/sbin/ocs-functions: line 10757: warning: setlocale: LC_ALL: cannot change locale (en
/usr/share/drbl/sbin/ocs-functions: line 10739: warning: setlocale: LC_ALL: cannot change locale (en)
/ /usr/share/drbl/sbin/ocs-functions: line 10739: warning: setlocale: LC_ALL: cannot change locale (en
/ /usr/share/drbl/sbin/ocs-functions: line 10739: warning: setlocale: LC_ALL: cannot change locale (en
/ perl: warning: Setting locale failed. perl: warning: Please check that your locale settings: LANGUAGE = (unset), LC_ALL = "en", LANG = "en_US.UTF-8" are supported and installed on your system. perl: warning: Falling back to a fallback locale ("en_US.UTF-8"). Activating the partition info in /proc done!
Getting /dev/sda1 info /usr/share/drbl/sbin/ocs-functions: line 3632: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drbl/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) Getting /dev/sda2 info
/usr/share/drbl/sbin/ocs-functions: line 3632: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drbl/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en)
The following step is to restore an image to the hard disk/partition(s) on this machine: "/home/part imag/os_image" -> "sda sda1 sda2" The image was created at: 2016–0907–1744
WARNING!!! WARNING!!! WARNING!!! WARNING. THE EXISTING DATA IN THIS HARDDISK/PARTITION(S) WILL BE OVERWRITTEN! ALL EXISTING DATA WILL
BE LOST:

Machine: VMware Virtual Platform
sda (21.5GB_VMware_Virtual_S_No_disk_serial_no)
sdal (500M(In_VMware_Virtual_S)_No_disk_serial_no)
sda2 (19.5G(In_VMware_Virtual_S)_No_disk_serial_no) xeepepepepepepepepepepepepepepepepepepe
Are you sure you want to continue? (y/n)

4. Enter **y** to confirm.

Getting /dev/sda1 info... /usr/share/drb1/sbin/ocs-functions: line 3632: warning: setlocale: LC_ALL: cannot change locale (en) Setting /dev/sda2 info... /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3632: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-functions: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-function: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-function: line 3645: warning: setlocale: LC_ALL: cannot change locale (en) /usr/share/drb1/sbin/ocs-function: locale: warning: setlocale: LC_AL: /usr/share/drb1/sbin/ocs-function: locale: warning: setlocale: LC_AL: /usr/share/drb1/sbin/ocs-function: locale: warning: setlocale: locale: locale: setlocale: locale: locale: locale: loca 5. Wait for the process to finish.

Partclone ————————————————————————————————————	
alculating bitmap Please wait done ile system: NTFS	
evice size: 524.3 MB = 127999 Blocks bace in use: 335.3 MB = 81864 Blocks	
ree Space: 189.0 MB = 46135 Blocks lock size: 4096 Byte	
ž	
lapsed: 00:00:06 Remaining: 00:00:08 F	Rate: 1.3668/min
urrent Block: 79394 Total Block: 127999	
the Direct Decement	40.05%
ata Block Process:	
otal Block Process:	40.65%

6. Select **(0) Poweroff** to power off the computer.

ree Software Labs, NCHC, Taiwan	
	Choose mode
Now you can choose to: poweroff Poweroff reboot Reboot cmd Enter command line prompt rerun1 Start over (image reposit rerun2 Start_over_(keep_image_re	ory /home/partimag, if mounted, will be umounted) pository_/home/partimag_mounted)
	<0k>

7. Remove the USB device after the computer has been powered off.

Step 4: Reboot the Computer

When you restart the computer, you will need to wait for about 5 minutes for the computer to go through two cycles of the reboot process. The system configuration files will be initiated during the first boot-up process. **Do not turn off the computer or shut down the computer** while the system is restarting. When the operating system has successfully launched, follow the "System Initialization" process.

Create an account fo	or this PC	
If you want to use a password, choose somet others to guess.	hing that will be easy for you to remember but hard for	
Who's going to use this PC?		
Username		
Make it secure.		
Enter password		
Re-enter password		
Password hint		
Ģ		

Saving the System Image to a USB Device

You can save the current system to the USB device for system recovery in case the system crashes. Before saving the system image to the USB device, we suggest you remove all files under **\home\partimag** on the USB device.

Boot from USB disk, when the system has been launched, and take the following steps.

1. Select clonezilla live save disk.



2. Wait for the USB device boot process to finish.

5.141941] sd 0:0:1:0: [sdb] Attached SCSI disk 5.257277] sd 0:0:0:0: Attached scsi generic sg0 type 0 5.269691] sd 0:0:1:0: Attached scsi generic sg1 type 0 5.280668] sr 1:0:0:0: Attached scsi generic sg2 type 5 1: Loading essential drivers ... [5.772551] Atheros(R) L2 Ethernet Driver - version 2.2.3 6: 272161 Comments (c) 2007 (thereon Commention) 5.2000001 sr 1.0.0.0. Attached start generic size type 5 is Loading essential drivers ... [5.272551] Atheros(R) L2 Ethernet Driver - version 2.2.3 5.274561] Copyright (c) 2007 Atheros Corporation. 5.863196] Broadcom NetXtreme II 5771x 10Gigabit Ethernet Driver bnx2x 1.62.00-6 (2011/01/30) 6.0055321 Btrfs loaded Begin: 6.0540551 device-mapper: uevent: version 1.0.3 6.0597371 device-mapper: ioctl: 4.19.1-ioctl (2011-01-07) initialised: dm-devel@redhat.com done Begin: Running /scripts/init-premount ... done. Begin: Mounting root file system ... [6.289382] Uniform Multi-Platform E-IDE driver [6.301889] ide_generic: please use "probe_mask=0x3f" module parameter for probing all legacy ISA IDE ports sensitive! 7.453369] aufs: module is from the staging directory, the quality is unknown, you have been war ed. 7.479098] aufs 2.1-standalone.tree-38-rcN-20110228 C. 7.6102281 Loop: module loaded
 C. 7.9051441 squashfs: version 4.0 (2009/01/31) Phillip Lougher
 Begin: Running /scripts/live-realpremount ... done.
 Begin: Mounting "/live/image/live/filesystem.squashfs" via "/dev/loop0" . done. done. Begin: Running /scripts/live-bottom ... Begin: Configuring fstab ... done. Begin: Preconfiguring networking ... done. Begin: Loading preseed file ... done. Begin: Running /scripts/init-bottom ... done. INIT: version 2.88 booting Using makefile-style concurrent boot in runlevel S.

3. Enter y to continue.

4. Wait for the process to finish.



5. Select (0) Poweroff so that the computer will power off when the process is finished.

e Software Labs, N	CHC, Taiwan
Now you can ch	choose mode
poweroff Powe reboot Rebo <mark>cmd Ente</mark> rerun1 Star	roff
	<0k>

The system image is stored in the **\home\partimag\os_image** folder on the USB disk. Keep the USB disk safe for system recovery in the future.