# Quick Guide for ET-7000/ET-7200 Firmware Upgrade

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This document provides step-by-step instructions on how to upgrade the firmware of your ET-7000/ET-7200. It also provides some guidance on how to check the firmware version and the configuration settings from within the web interface after the upgrade.

The upgrade procedure of the firmware consists of the following main steps:

- Install the MiniOS7 Utility on your computer
- Upload the latest firmware to ET-7000/ET-7200 through the MiniOS7 Utility
- Check the firmware version and the configuration settings via web interface

New features in Version 3.0.0

- Use HTML5 features to build the web interface, which does not require Adobe Flash Player
- The web interface is accessible from any computer, tablet, or mobile device with a browser that supports HTML5
- Change the unit of timeout of the Host Watchdog timer from second to 0.1 seconds
- Improve the DHCP client capability so it persists in attempting to acquire IP configuration information if the DHCP client is enabled

# 1. Install MiniOS7 Utility

MiniOS7 Utility is a suite of tool for ET-7000/ET-7200. You may use the MiniOS7 Utility to search, configure and upgrade the ET-7000/ET-7200 firmware.

Step 1: Download the installation file of the MiniOS7 Utility to your computer The installation file can be obtained from: http://ftp.icpdas.com/pub/cd/6000cd/napdos/software/minios7\_utility/

Step 2: Run the downloaded file to start the installation process. It will lead you through the installation step by step

,	1
🖟 Setup - [MiniOS7 Utility Ver	×
	Welcome to the [MiniOS7 Utility Ver 3.27] Setup Wizard
	This will install MiniOS7 Utility Ver 3.27 on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

Step 3: After the installation is finished, the icon named "MiniOS7 Utility Ver 3.27" will appear on the desktop and the Program sub-menu "ICPDAS" of the start menu



## 2. Upgrade Firmware using the MiniOS7 Utility

The firmware update requires a TCP/IP connection. Connect the ET-7000/ET-7200 to a network whenever possible.

- Step 1: Use an Ethernet cable to connect the ET-7000/ET-7200 to the computer After plugging the Ethernet cable, the Link/Act and 10/100 indicator LEDs come on or start flashing to indicate a connection was made.
- Step 2: Establishing a connection between the MiniOS7 Utility and the ET-7000/ET-7200
  Launch the MiniOS7 Utility and then select New Connection on the Connection menu.
  MiniOS7 Utility Version 3.2.7

C	🔉 File	🕨 Connection 🚽 🚸	Command	🛾 Configuration 🛛 🗖	ools 🥔 Help 🔻			
Look in		<u>N</u> ew connection	F2	<b>-</b> 👌 🎓 📂				
		Last Connection	Alt+F2					
N	ame	<u>D</u> isconnect	Ctrl+F2 ze	Туре	Modified			
	bin	Search	F12	File Folder	9/21/2017 3:30 PM			
	FIRM\			File Folder	9/21/2017 3:30 PM			
	OS_IM	IAGE		File Folder	9/21/2017 3:30 PM			
5	e icpdas		1KB	URL File	9/21/2017 3:30 PM			
\$	load23	32.dll	88KB	DLL File	1/31/2007 12:52 PM			
	😵 MiniOS7_Utility.chm		1,015KB	CHM File	10/15/2009 9:38 AM			
2	MiniOS	67_Utility.exe	2,544KB	EXE File	7/13/2015 5:33 PM			
23	) MiniOS	67_Utility.ini	1KB	INI File	7/13/2015 5:29 PM			
\$	uart.dl	l	56KB	DLL File	12/8/2006 10:07 AM			
	) unins0	100.dat	18KB	DAT File	9/21/2017 3:30 PM			
15	l unins0	100.exe	1,166KB	EXE File	9/21/2017 3:29 PM			

On the "Connection" tab of the "Connection" dialog, select "TCP" from the dropdown list, type the IP address of ET-7000/ET-7200 module, and then click OK button.

🚵 Connection	—		$\times$
Connection History			
TCP			
Serial Port			
Baud Rate: 115200 💌	IP: 10.1	.112.60	
Data Bit: 8	Port: 100	00	
Parity: 0(None)			
Stop Bit: 1			
OK Cancel		<u>H</u> e	p

#### Step 3: Look for the connector symbol at the upper right-hand corner of the MiniOS7 Utility

to ensure the connection is made

MiniOS7 Utility Version 3.2.7								-	٥	$\times$
🔯 File 🌓 Connection 👻 🚸	Command 😨	Configuration	n 🛅 Tools 🥔 Help 🔻						1	
Look in: ET-7260_M12-CBC		💽 🔇 🏚 🛙	<b>9</b> .		Lock in: Disk A	✓ 11	8,210 bytes available			ŧ
Name	Size	Туре	Modified	No	Name		Size			todified
ET7260M12_V300.HEX	146KB	HEX File	9/25/2017 3:20 PM	<b>[</b> ]0	acce_ip.htm		5,820	2/20/2017	10:24	:24 AM
				1	autoexec.bat		6	9/22/201	7 2:15	:22 PM

If the connection fails, make sure that:

- An Ethernet cable is connected securely to both the ET-7000 and your computer
- The ET-7000/ET-7200 is active (powered on)
- The IP address of ET-7000/ET-7200 is correct
- No firewall is blocking the connection

#### Step 4: Delete the original files from the ET-7000/ET-7200

After establishing a connection, select "Erase Disk" from Command menu (or right-click on the right of window) to delete all files existed on the ET-7000/ET-7200.

ook in: ET.7260 M12 CPC	- A A -	<b>5</b>				
TOOK IN 1 1 61-4200 MITS-CBC	<u> </u>	n		Lock in: Disk A	118,210 bytes available	Ę
lame	Size Type	Modified	No	Name	Size	Moc
] ET7260M12_V300.HEX	146KB HEX File	9/25/2017 3:20 PM	0	acce_ip.htm	5,820	2/20/2017 10:24:24
			1	autoexec.bat	6	9/22/2017 2:15:22
			2	comm_api.js	7,974	1/7/2017 2:45:52
			<b>H</b> 3	conn.png	2,381	7/5/2016 11:39:40
			4	custom.css	2,409	2/24/2017 3:32:18
			95	edit.htm	Run 11,733	2/20/2017 1:50:50
			6	editpt.htm	Run with parameters 8,293	8/9/2017 4:22:00
			1	ET7260M.exe	Recet MiniOS F4 19,820	9/25/2017 3:17:06
			8	index.htm	561	8/9/2017 11:20:02
			9	JavaHMI.htm	Erase Disk 22 031	9/25/2017 3:19:12
			10	main.htm	Quit Firmware 3 669	8/29/2017 2:03:58
			11	menu.htm	3,103	2/24/2017 1:56:58
			12	modbus.htm	12,856	8/29/2017 2:45:46
			13	modbus.js	11,030	2/17/2017 4:03:18
			14	modset.htm	9,014	9/25/2017 3:18:26
			15	network.htm	4,216	3/2/2017 10:29:06
			16	normaliz.css	7,797	12/29/2014 10:30:00
			17	pageconf.htm	4,343	2/15/2017 6:53:40
			18	password.htm	7,524	2/20/2017 10:16:54
			19	reboot.htm	352	2/16/2017 3:00:04
			20	reload.htm	302	2/16/2017 3:00:06
			21	setting.htm	8,538	2/16/2017 3:13:56
			22	skeleton.css	11,452	12/29/2014 10:30:00
			23	title_bg.jpg	7,492	11/15/2006 1:51:08
			<b>H</b> 24	top.htm	1,458	2/16/2017 3:33:08
			>			
			10ET-72	260-M12-CBC>IP:	10.1.112.60 Port:10000 via TCP, 25 files(s) 274.1	74 bytes

Step 5: Upload the firmware file to ET-7000/ET-7200

Right-click on the ET7XXX\_V300.HEX file and select Upload from the menu.

.ook in: ET-7260_M12-0	CBC 🔄 🖸 🕼 🖻	9		Lock in: Disk A	✓ 393,184	bytes available	e f
lame	Size Tune	Modified	No	Name		Size	Modified
ET7260M12_V300.HE	Upload F5 DUS FTT	9/25/2017 3:20 PM					
			>				

Step 6: Wait until the firmware update is finished, and then reboot the ET-7000/ET-7200 by cycling the power

### 3. Check the Firmware Version and Configurations

To ensure the upgrade process is successful, check the firmware version and the configuration settings from within the web interface. Carefully review the configuration settings to ensure the upgrade configuration meets new version of ET-7000/ET-7200 firmware.

Step 1: Open a web browser that supports HTML5 such as Google Chrome, Mozilla Firefox, or Windows Internet Explorer 9

#### Note:

The new version of ET-7000/ET-7200 uses HTML5 features to build the web interface, which does not require Adobe Flash Player. In order to have access to all of the current functionality, you must use a browser that supports HTML5.

Step 2: Enter the IP address of the ET-7000/ET-7200 in the URL



Step 3: Check the version number of ET-7000/ET-7200 firmware installed



Step 4: Review the configuration settings you have specified in ET-7000/ET-7200 Carefully review the configuration settings to ensure that all configurations are meeting your needs.

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ICP DAS http://www.icpdas.com		=				
Overview	Common F	unctions				Î
Configuration – Network Settings	Modbus Address	Function				
Module I/O Settings	00126	Reset to Factory Default Settings				
Authentication +	00133	Reboot ET-7260-M12-CBC				
Web HMI +	40255	Reset Status	1 1:Power-on, 2:Module Watchdog, 3:F	Reset command		
More Information	40256	Reset Event Counter	4			
	40257	Host Watchdog Timeout	0 0:Disabled, 1~65535:Enat seconds)	oled (units:0.1		
	40258	WDT Event Counter	0			
			SUBMIT			~

Step 5: Perform the functional test of digital inputs and digital outputs in order to check that the ET-7000/ET-7200 properly responds to the incoming request through Modbus communication.

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ICP DAS http://www.icpdas.c	om		=		- Eller				
Overview	DI4	10004	OFF	-	-	-			^
Configuration +	DI5	10005	OFF	-	-	-			
Authentication +									
Web HMI 🗕									
Web HMI	Digital Outp	uts							
Web Eait									
Pair Connection	Channel No.	Modbus Reg	jister	Status	Action				- 1
More Information	DO0	00000		ON	OFF				
	DO1	00001		OFF	OFF ON				
	DO2	00002		OFF	OFF				

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