

# **Application Note**

# AN2001

## ETPort / WattsOn-Mark II (-E4) Firmware Upgrade Procedure

#### Summary

The firmware for the ETport (both external, and internal integrated on the WattsOn-Mark II –E4 model) may be upgraded in the field. Elkor Technologies Inc. discourages upgrading of firmware unless necessary or authorized by Elkor. This document describes the steps to upgrade the firmware.

Note: This document refers to the Ethernet module as "ETport". Regardless if using the stand alone ETport, or the integrated model (W2-E4), the procedure is the same.

#### Preparation:

**NOTE:** The default username is admin. The default password is admin.

#### Step 1: Locate and Log into the ETport

1. If the IP address of the ETport is not known, use the Elkor Finder Program to locate it on the network:

A EIKOFINEtWORK DEVICE FINDER					$\sim$
Find     Clear     Bound IP: Default     v3.2					
Device	Name	IP Config	IP	MAC	
ETport-W2	WattsOn-Mark II Gateway	Dynamic	192.168.1.190	30:ae:a4:c5:b4:37	

2. Use the found IP address and open a web page to navigate to the ETport (TIP: you may right-click on the found device, and click "Open Browser" to streamline this process).

### Step 2: Reboot the Device

- 1. Click "System"
- 2. Click "Reboot"
- 3. Wait for the ETport to reboot, the web interface should refresh automatically. If it does not, close your browser, and navigate to the ETport again (or repeat Step 1)

	nologies Inc.		Precision. Innovation. Engineered.
ETport-W2	WattsOn-Mark	II Gateway	Firmware 1.01
CONNECTED DEVICE	System		MODBUS ACTIVITY
Monitor	Reboot Device	Reboot	2 Deen detected on the s since boot-up:
<ul><li>✿\$ View Config</li><li>▲ Web Posting</li></ul>	Admin Password Password	Confirm Submit	Active 45 seconds ago 127.0.0.1 Web Poster → 1
GATEWAY	Restore Factory Defaults	Factory Defaults	Active 3 minutes ago 192, 168, 1, 126:50393 HTTP → 1
Information	Change Firmware	Choose File Upload	POSTING STATUS
Filesystem     Network		Advanced Configuration	This device's most recent web post was at the following time:
🔳 Log			3:32:59 PM (UTC-4)
<b>î</b> Diagnostics <b>System</b>			The result of this device's most recent post was the following:
			Successful
			Elkor Technologies Support

### Step 3: Update the firmware

- 1. Click "System"
- 2. Under "Change Firmware", click "Browse"
- 3. Navigate to the .frm file provided by Elkor Technologies Inc.
- 4. Ensure that the filename appears beside the Browse Button.
- 5. Click "Upload"

ELHOR Tech	nologies Inc.	Precision. Innovation. Engineered.
ETport-W2	WattsOn-Mark II Gateway	Firmware 1.01
	SYSTEM	MODBUS ACTIVITY
Monitor	Reboot Device Reboot	Modbus traffic has been detected on the following addresses since boot-up:
Web Posting	Admin Password Confirm Submit	Active 45 seconds ago 127.0.0.1 Web Poster → 1
GATEWAY	Restore Factory Defaults Factory Defaults	Active 3 minutes ago 192.168.1.126:50393 HTTP → 1
• Information	Change Firmware 2 Choose File Upload	5
Filesystem     Network	Advanced Configuration	s device's most recent web post was at the following time:
i≣ Log		3:32:59 PM (UTC-4)
* Diagnostics		7/22/2020
😫 System		The result of this device's most recent post was the following:
		Successful
		Elkor Technologies Support

6. Click "OK" to confirm the firmware upgrade

Are you sure you want to change the firmware for this devic	e?
Note that a power loss to the device during this process co	ould corrupt the firmware and render the device unusable.
	6 OK Cancel

#### Step 4: Wait until ETport restarts

The ETport will process and apply the firmware upgrade. The firmware file will first upload, which can take 1-2 minutes, and then the device will reboot and apply the firmware update. Wait patiently until the timer expires, the process could take up to 5 minutes.

Rebooting Device		80 Seconds Remaining	
REBOOTING			
Any changes you mad	de have been applied, and the ETport is now rebooting.		
You will be redirected automatically when the reboot has completed in approximately 80 seconds. If the ET port is using a static IP address, you will be automatically redirected to that address.			
If you are using DHCP, you may need to determine the IP address your router has assigned the ETport and enter the URL manually.			
<ul> <li>If you are the</li> <li>Otherwise, you</li> </ul>	network administrator, you can check your router's configuration. ou can do this using the <u>Elkor Finder</u> , a Windows utility available from Elkor's web site.		
Network Settings			
Assigned Automatical	Ily: Yes, via DHCP		
IP Address:	<u>192.168.1.190</u>		
Subnet Mask:	255.255.255.0		
Default Gateway:	192.168.1.1		
		Elkor Technologies Documentation Support	

#### Step 4: Verify Firmware Version

Ensure that the firmware has been correctly upgraded by checking the firmware version information in the upper right corner & "Gateway Information" sections. (*Note: the screenshot below shows v1.07, however the actual firmware version number should read as per the firmware file provided*).

ELKOR T	echnologies Inc.		Precision. Innovation. Engineered.
ETport-W2	WattsOr	n-Mark II Gateway	Firmware 1.07
	METER INFORMATION		MODBUS ACTIVITY
Monitor	Device: Part Number:	WattsOn-Mark II W2-E4-mA-DL 15236	Modbus traffic has been detected on the following addresses since boot-up:
Web Posting	Firmware Version: Hardware Version:	12.02 1.30	Active 50 seconds ago 33     127.0.0.1 Web Poster → 1     Active 2 minutes ago 33
GATEWAY A	GATEWAY INFORMATION		192.168.1.126:50593 HTTP → 1
<ul> <li>Filesystem</li> <li>Network</li> </ul>	Name: Device Name: Cloud ID:	WattsOn-Mark II Gateway ETport-W2 30:AE:A4:C5:B4:37	This device's most recent web post was at the following time:
🗉 Log	Firmware Version:	0002-01 1.07 Dec 19 2010 11-0007	3:45:33 PM (UTC-4) 4/22/2020
System	Operating System:	Platform v3.1.2e1 / Kernel V8.2.0 [E]	The result of this device's most recent post was the following:
	NETWORKING INFORMATION		Successful
	Interface: Interface MAC Address: IP Address: Subnet Mask: Default Gateway: Primary DNS: Secondary DNS:	Ethernet 30:ae:a4:c5:b4:37 192.168.1.190 (DHCP) 255.255.255.0 (DHCP) 192.168.1.1 (DHCP) 192.168.1.1 (DHCP) 0.0.0.0 (DHCP)	