## How to upgrade the Redbox firmware.

#### Jun, 22, 2012

## General information.

This article describes how to update the formware of Redbox2 and Redbox3.

Redbox supports updating the firmware from network, not usb memory. In some case, the user may not have network, even in this case, you need network.

Recommended simple network: PC – (Switch with DHCP Server ex:router) · Redbox

### Restriction:

PC and Redbox must be on the same network segment. DeviceFinder never obtains information over router.

#### About update phases on Redbox.

There are 3 phases on Redbox while upgrading.

Phase1.	Receiving the hex file from DeviceFinder onto supplemental memory.
	Many Green LEDs and Blue LED are blinking.
Phase2.	Verifying the hex file on the supplemental memory.
	Many Red LEDs are blinking.
Phase3.	Burning the program memory.
	Many Green and Red and Blue LEDs are blinking.

### Instruction.

- 1. Connect PC to your network.
- 2. Launch the DeviceFinder.

Refresh View( <u>R</u> )		Network Conn	$\operatorname{Vetwork} \operatorname{Connection}(\underline{\mathbb{N}})$ $\Box$ Log $\operatorname{Setting}(\underline{\mathbb{L}})$		(Ľ)	Network Setting(S) Option(Q)
MAC Address	Dhcp	IP Address	Subnet Mask	Gateway	DNS Server	Firmware Version

- 3. Connect Redbox to your same network.
- 4. Turn on the Redbox and wait until it appear on the DeviceFinder window.

Refresh View( <u>R</u> )		Network Connection(N) 📃 Log Setting(L)			Network Setting(S) Option(O)	
MAC Address	Dhcp	IP Address	Subnet Mask	Gateway	DNS Server	Firmware Version
00:50:c2:f4:00:3b	No	192.168.5.148	255.255.255.0	192.168.5.201	192.168.5.201	Redbox3DNC Ver 2.16e

Now, there is a Redbox3, MAC is 00:50:c2:f4:00:3b.

Firmware virsion is Ver2.16e.

5. Point a line witch you will update the firmware.

Refresh View( <u>R</u> )		Network Conne	nnection( <u>N</u> )		Network Setting(S) Option(O)		
MAC Address	Dhcp	IP Address	Subnet Mask	Gateway	DNS Server	Firmware Version	-
0:50:c2:f4:00:3b	No	192.168.5.148	255.255.255.0	192.168.5.201	192.168.5.201	Redbox3DNC Ver 2.16e	

When there is highlighted line, the "Option" button will be enabled.

6. Click the "Option" button.

MAC Address :	00/50:c2 f4/00/3b	🔦 (E)Firmware upgrade
		-

Then Option Dialog will be shown.

Click the "Firmware upgrade" button to select a firmware file that has .hex extension.
For Redbox2, the file name is pic32dnc.hex.
For Redbox3, the file name is redbox3dnc.hex.

Then click the "Open" button on the File Open Dialog box.



8. Click "Yes" on the Yes No Dialog box to start updating the firmware.



Now updating, it will spend 3 minutes.(Phase1)

# Many LEDs must be blinking, don't turn off the power!!



DeviceFinder will show you a dialog above, but updationg is still running.(Phase1 finish)

# Please be a patient until Redbox restarts itself!!

Redbox is on the Phase2 and Phase3, don't turn off Redbox!! After Redbox restarts, a blue LED will blink each second. Then click "OK" button to close this dialog box. 9. Close the Option Dialog box by clicking "Cancel".

Redbox3DNC Op	tion. 00:50:c2:f4:00	:3b
MAC Address :	00:50:c2:f4:00:3b	(E)Firmware upgrade
	ок( <u>о</u> )	Cancel( <u>C</u> )

# Don't click "OK", or upgrading the firmware will start again.

#### 10. Confirm the result.

Refresh View(	R)	Network Connection( <u>N</u> )		Log Setting( <u>L</u> )		Network Setting( <u>S</u> ) Option( <u>O</u> )
MAC Address	Dhcp	IP Address	Subnet Mask	Gateway	DNS Server	rirmware Version
00:50:c2:f4:00:3b	Yes	192.168.5.148	255.255.255.0	192.168.5.201	192.168.5.201	Redbox3DNC Ver 2.16f

Now the firmware version is 2.16f.

Upgrading was successful.