Simple manual for online updating firmware using MiniOS Utility: Step 1: open the MiniOS Utility and choose "Connection  $\rightarrow$  Search..." or F12 as the following figure shows.

🖄 MiniOS7 Utility Verion 3.1.6								
🔯 File 🌓 Connection 🔻 🚸 Com	mand 🛐 Co	onfiguration 📑 Too	ls 🥔 Help 🔻					
Look in: <u>New connection</u> H Last Connection Alt+F	2	🖌 🔇 🌶 📂		L	ock in: Disk A	✓ 386,554 byte	es available	8
Name Disconnect Ctrl+F	2Size	Туре	Modified	No	Name		Size	Modified
🥦 7188× Search F1	2 1KB	組態設定値	2007/9/26	۵	vcom3223.exe	7:	2,134 2006/6/2	?7 下午 02:4
/ UdpSear	1KB	C Source File	2007/9/26					
	73KB	應用程式 CVM File	2007/9/26					
	2KB	DSK File	2007/9/26					
	1KB	Intermediate file	2007/9/26					
🖬 UDPSEAR.PRJ	5KB	PRJ File	2007/9/26					
			<u> </u>	7188E_U	DP>COM1, 1 files(s) 72,	134 bytes		
Connection(F2) 🗐 Upload(F5)	🗟 DiskTo	ool(F6) 📴 Info(F7)	Delete(F8)	🛃 Refr	esh(F9) 🚝 Console(I	-10) 🔤 DOS(F11)	🙀 Search(F12)	

Step 2: you can see the result that MiniOS Utility search the device on the network by UDP Search.



Note: you can see the green part of the codes below determine the fields of "Name" and "Alias" of the results of the UDP Search using MiniOS Utility.

```
char *GetModuleName(void) /* User's program must support this function for
UDP search */
{
    return "i-7186E-XS" ; //You can define any string you like
}
char *GetAliasName(void)/* User's program must support this function for UDP
search */
{
    return "test1" ;
}
```

## **Update Firmware via Ethernet**

1. Refer the Step 1 above to search the i-7186EX-XS

Stop	Options Connect	Clear IP setting						
Туре		IP/Port	Name	Alias	Mask	Gateway	MAC	D
TCP Bro	padCast	10.0.9.145	i-7186E-XS	test1	255.255.0.0	10.0.9.254	00:0d:e0:20:00:2b	0
TCP Bro	padCast	10.0.9.131	7186E2		255.255.255.0	10.0.0.1	ft:ft:ft:ft:ft:ff	0
TCP Bro	padCast	10.0.9.130	7186E2		255.255.255.0	10.0.0.1	低低低低低	0

## 2. The all files exist on the 7186EX will show on the Main windows.

🚵 MiniOS7 Utility Verion 3.1.8								- 7 🛛
🔯 File 🌓 Connection 🝷 🚸 Comm	and 🛐 C	onfiguration 📑 To	ols 🥔 Help 🔹		4			
Look jn: 🛅 HEX		🕑 🗿 🦻 🖻			Lock in: Disk A	<b>~</b>	229,140 bytes available	ł
Name	Size	Туре	Modified 🔼		No Name		Size	Modified
a 7060_Burning_Test_v109		File Folder	2008/2/20 下午 05:0:		🗐 0 update.exe		98,476	2008/8/7 下午 05:41:22
ET7042_Latest		File Folder	2008/7/31 下午 07:1					
ET7044_Latest		File Folder	2008/7/31 下午 07:1					
ET7050_Latest		File Folder	2008/7/31 下午 07:11					
ET7051_Latest		File Folder	2008/7/31 下午 07:1					
ET7052_Latest		File Folder	2008/7/31 下午 07:1					
ET7053_Latest		File Folder	2008/7/31 下午 07:1					
ET7060_Latest		File Folder	2008/7/31 下午 07:11					
ET7065_Latest		File Folder	2008/7/31 下午 07:1					
ET7066_Latest		File Folder	2008/7/31 下午 07:1					
ET7067_Latest		File Folder	2008/7/31 下午 07:1					
🛅 Files		File Folder	2007/6/13下午 01:3					
Circles_100C		File Folder	2007/12/11 上午 11:.					
🛅 Files_103		File Folder	2007/12/11 下午 03:.					
C Files_103B		File Folder	2007/12/21 下午 06:.					
Empires_103C		File Folder	2007/12/27下午 05:.					
Eiles_109		File Folder	2008/3/20下午 03:1-					
🖬 7060_Burning_Test_v109.HEX	252KB	HEX File	2008/2/20 下午 05:0					
7188eu	1KB	組態設定値	2008/7/31 下午 04:1					
7188xw	1KB	組態設定値	2008/7/21 下午 02:1					
🖬 ET7K100.HEX	261KB	HEX File	2007/6/13下午 01:3					
🖬 ET7K100C.HEX	264KB	HEX File	2007/12/11 上午 11:.					
🖬 ET7K103.HEX	252KB	HEX File	2007/12/18下午 02:.					
🖬 ET7K103C.HEX	253KB	HEX File	2007/12/27下午 05:.					
🖬 ET7K109.HEX	249KB	HEX File	2008/3/15下午 02:4					
🖬 ET7K_103B.HEX	253KB	HEX File	2007/12/21 上午 11:.					
🖬 ET7042_V109.HEX	252KB	HEX File	2008/6/25下午 07:0:					
ET7042_V110	268KB		2008/7/31 下午 07:1					
ET7042_V110.HEX	273KB	HEX File	2008/7/31 下午 07:1					
🖬 ET7044_V109.HEX	252KB	HEX File	2008/6/25下午 07:0					
TT7044_V110.HEX	273KB	HEX File	2008/7/31 下午 07:1					
ET7050_V109.HEX	252KB	HEX File	2008/6/25下午 07:0 🗸					
<			>					
				1	0i-7188E-XS>IP:10.0.9.245 P	ort:10000 via 1	CP, 1 files(s) 98,476 bytes	

## 3. Choose Command->Erase Disk function or press 'Delete' key to delete all files.

🚵 MiniOS7 Utility Verior	n 3.1.8							∎₽⊠
🔯 File 🌔 Connection 👻	🚸 Command 🛐 C	onfiguration 📑 Tools	🧼 Help 🔻					
Look in: 🛅 XS_Demo08-	Upload F5 DiskTool F6	🖌 🔇 🌶 📂			Lock in: Disk A	<b>×</b>	229,140 bytes available	e <sup>fe</sup>
Name	Refresh F9	Туре	Modified	No	Name		Size	Modified
🧿 7188xw		且態設定値	2008/8/7下午 05:42	0	update.exe		98,476	2008/8/7 下午 05:41:22
h) module.h	US Type	C or C++ include file	2008/8/7下午 05:32					
🔄 simple manual for OnLine	EEPROM 🕨	vlicrosoft Word文件	2007/9/26 上午 10:01					
🌺 udp_search_1	Pack Disk	√indows 點陣圖	2007/9/26 上午 09:39					
🌺 udp_search_2	Erase Disk	Windows點陣圖	2007/9/26 上午 09:58					
UDPSEAR	Reset F4	應用程式	2008/6/13 上午 11:39					
UPDATE .	JOVD	遮用程式	2008/8/7下午 05:41					
1 UPDATE	1KB	Object File	2008/8/7下午 05:41					
UPDATE	172KB	SYM File	2008/8/7下午 05:41					
C UpDate.C	2KB	C source file	2008/8/7下午 05:41					
🖬 UPDATE.DSK	1KB	DSK File	2008/8/7下午 05:41					
🔟 Update.PRJ	5KB	PRJ File	2008/8/7下午 05:41					
1								

🗊 File 🌔 Connection 🔹 🚸 Con	nmand 🛐 C	Configuration 🔂 Tools	🐠 Help 🔹					
Look jn: 🚞 XS_Demo08-1		👱 🧿 🌶 📂			Lock in: Disk A	<b>&gt;</b>	327,648 bytes available	ef.
Name	Size	Туре	Modified	No	Name		Size	Modified
🧿 7188xw	1KB	組態設定値	2008/8/7 下午 05:42					
h module.h	1KB	C or C++ include file	2008/8/7下午 05:32					
imple manual for OnLine Upd	108KB	Microsoft Word 文件	2007/9/26 上午 10:01					
tudp_search_1	1,920KB	Windows 點陣圖	2007/9/26 上午 09:39					
tudp_search_2	1,925KB	Windows點陣圖	2007/9/26上午 09:58					
UDPSEAR .	79KB	應用程式	2008/6/13 上午 11:39					
T UPDATE	96KB	應用程式	2008/8/7下午 05:41					
1 UPDATE	1KB	Object File	2008/8/7 下午 05:41					
🛅 UPDATE	172KB	SYM File	2008/8/7 下午 05:41					
C UpDate.C	2KB	C source file	2008/8/7 下午 05:41					
IPDATE.DSK	1KB	DSK File	2008/8/7 下午 05:41					
🖬 Update.PRJ	5KB	PRJ File	2008/8/7 下午 05:41					

4. Drag and drop the file to right side of main windows (Update.exe which you want to download to 7186EX).

The progress bar will show the downloading percentage of scheduled progress

.ook jn: 🛅 XS_Demo08-1	4	O Ø Ø			Lock in: Disk A	×	327,648 bytes available	el,
Name	Size	Туре	Modified	No	Name		Size	Modifie
9 7188xw	1KB	組態設定値	2008/8/7下午 05:42					
nodule.h	1KB	C or C++ include file	2008/8/7下午 05:32					
simple manual for OnLine Upd	108KB	Microsoft Word 文件	2007/9/26上午 10:01					
udp_search_1	1,920KB	Windows 點陣圖	2007/9/26 上午 09:39					
udp_search_2	1,925KB	Windows點陣圖	2007/9/26上午 09:58					
UDPSEAR	79KB	應用程式	2008/6/13 上午 11:39					
UPDATE	96KB	應用程式	2008/8/7下午 05:41					
UPDATE	1KB	Object File	2008/8/7下午 05:41					
J UPDATE	172KB	SYM File	2008/8/7下午 05:41					
DpDate.C	2KB	C sou Loading Brog	2997					
UPDATE.DSK	1KB	DSK F	1999					
🗟 Update.PRJ	5KB	PRJ F						
		From: D:V	7188e\Tcp\Xserver\XS\new	_XS_Lite	_DemoWS_Demo08-1	UPDATE.E		
		To: LIP	DATE EXE					
		10. 01	orn e.ene					
				1455				
			38	3%				
			Ca	ncel		Help		

5. Finish download, you can see the file on the disk of 7186EX.

6. Power off and Power on the 7186EX, the new firmware will take effect (The system must has autoexec.bat file)

Look in: C XS_Demo08-1	<b>Y G D</b>			Lock in: Disk A	~	229,140 bytes available	
Name	Size Type	Modified	No	Name		Size	Modifie
🧿 7188xw	1KB 組態設定値	2008/8/7下午 05:42	0	UPDATE.EXE		98,476	2008/8/7 下午 05:41:4
h) module.h	1K 💦 C or C++ include file	2008/8/7下午 05:32					
🖄 simple manual for OnLine Upd	108KB <sup>W</sup> Microsoft Word文件	2007/9/26 上午 10:01					
udp_search_1	1,920KB Windows點陣圖	2007/9/26 上午 09:39					
udp_search_2	1,925KB Windows點陣圖	2007/9/26 上午 09:58					
UDPSEAR	79KB 應用程式	2008/6/13 上午 11:39					
UPDATE	96KB 應用程式	2008/8/7下午 05:41					
UPDATE	1KB Object File	2008/8/7下午 05:41					
UPDATE	172KB SYM File	2008/8/7下午 05:41					
] UpDate.C	2KB C source file	2008/8/7下午 05:41					
UPDATE.DSK	1KB DSK File	2008/8/7下午 05:41					
🗐 Update.PRJ	5KB PRJ File	2008/8/7下午 05:41					

Note: you can see the green part of the codes below.

The codes below allow the i7186EX updating firmware via TCP/IP using MiniOS Utility.

XS\_AddServer(&Port10K);

pXS\_Port10kCmd[0]=ET\_QuitPROG\_CMD00;

pXS\_Port10kCmd[1]=VcomVersion;

pXS\_Port10kCmd[10]=VcomServerName;

pXS\_Port10kCmd[33]=XS\_LoadFile\_33;