

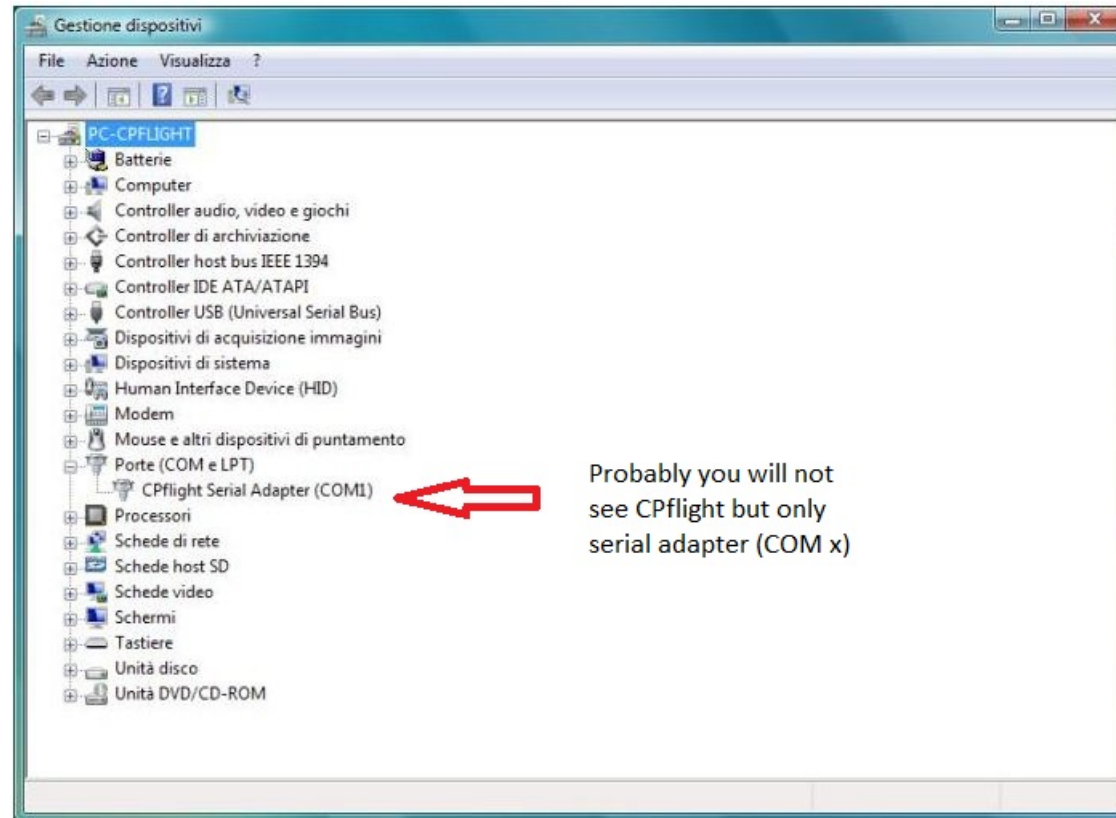
MCP737EL FIRST SETUP

The package include the MCP737EL, the USB cable (1,8mt) and 2 jumpers used for the firmware upgrade. Please keep carefully this jumpers. The MCP power supply is directly provided through the computer USB port



USB driver installation

When you connect the MCP737EL to the usb port of your computer the operative system (OS) start to automatically search the right usb driver. Usually on PC with installed windows7 or later version the OS, after few second find and install the usb driver. If you open the device manager window you will find a Port (COM & LPT) field with a com port number (see the picture below). In this example the com port number is COM1. This value is assigned randomly, so on your system you could see also an other com port number (Eg. COM3, COM4). Please remember this number because is the number that you have to assign the first time (and only the first time) that you will run the Cpflight driver or the Cpflight test utility. Note that if you connect the MCP to an other usb port this com port number will change, so you will browse again into your device manager to see the new com port number assigned



Occasionally due to some antivirus or firewall blocking this installation could fail, in this case you can download the usb driver from the cpflight web site and install the driver manually (see next page).

Force the usb driver

If during the driver installation the firewall, antivirus or some other protection lock the driver installation, do not worry you can install this driver manually. From this page at CPflight web site (<https://www.cpflight.com/en/mcp737el-prod-4.php>) you can download this zip file (usbdriver32_64.zip) . Once downloaded unzip the file into a **temporarily folder** (Eg. you can name this folder "CPfligh USB driver") and open the device manager window. You will find a warning (yellow interrogative point) that will inform you that a device is not yet correctly installed and are waiting the correct driver. Open the device properties window, select upgrade driver and select "search the driver on this computer". Browse on the **temporarily folder** (Eg. "Cpfligh USB driver" created before), then select OK.

Proprietà - USB Serial Port (COM3)

Generale Impostazioni della porta **Driver** Dettagli Eventi

USB Serial Port (COM3)

Fornitore driver: FTDI
Data driver: 28/09/2016
Versione driver: 2.12.24.0
Firma digitale: Microsoft Windows Hardware Compatibility Publisher

Dettagli driver Visualizzare dettagli sui file dei driver installati.
Aggiorna driver Aggiornare il driver del dispositivo.
Ripristina driver Se il dispositivo non funziona correttamente dopo aver aggiornato il driver, ripristinare il driver precedentemente installato.
Disabilita dispositivo Disabilitare il dispositivo.
Disinstalla dispositivo Disinstallare il dispositivo dal sistema (per utenti esperti).

OK

Aggiorna driver - USB Serial Port (COM3)

Cerca driver nel computer

Cerca i driver in questa posizione:
C:\CPflight USB Driver Sfoglia...
 Includi sottocartelle

→ Scegli da un elenco di driver disponibili nel computer
Nell'elenco verranno visualizzati i driver disponibili compatibili con il dispositivo e tutti i driver della stessa categoria del dispositivo.

Aggiorna driver - USB Serial Port (COM3)

Come vuoi eseguire la ricerca dei driver?

→ Cerca automaticamente un driver aggiornato
Verrà eseguita automaticamente la ricerca nel computer e su Internet dei driver più aggiornati per il dispositivo, a meno che questa funzionalità non sia stata disattivata nelle impostazioni di installazione del dispositivo.

→ **Cerca il software del driver nel computer**
Il software del driver verrà individuato e installato manualmente.

Avanti Annulla

Annulla

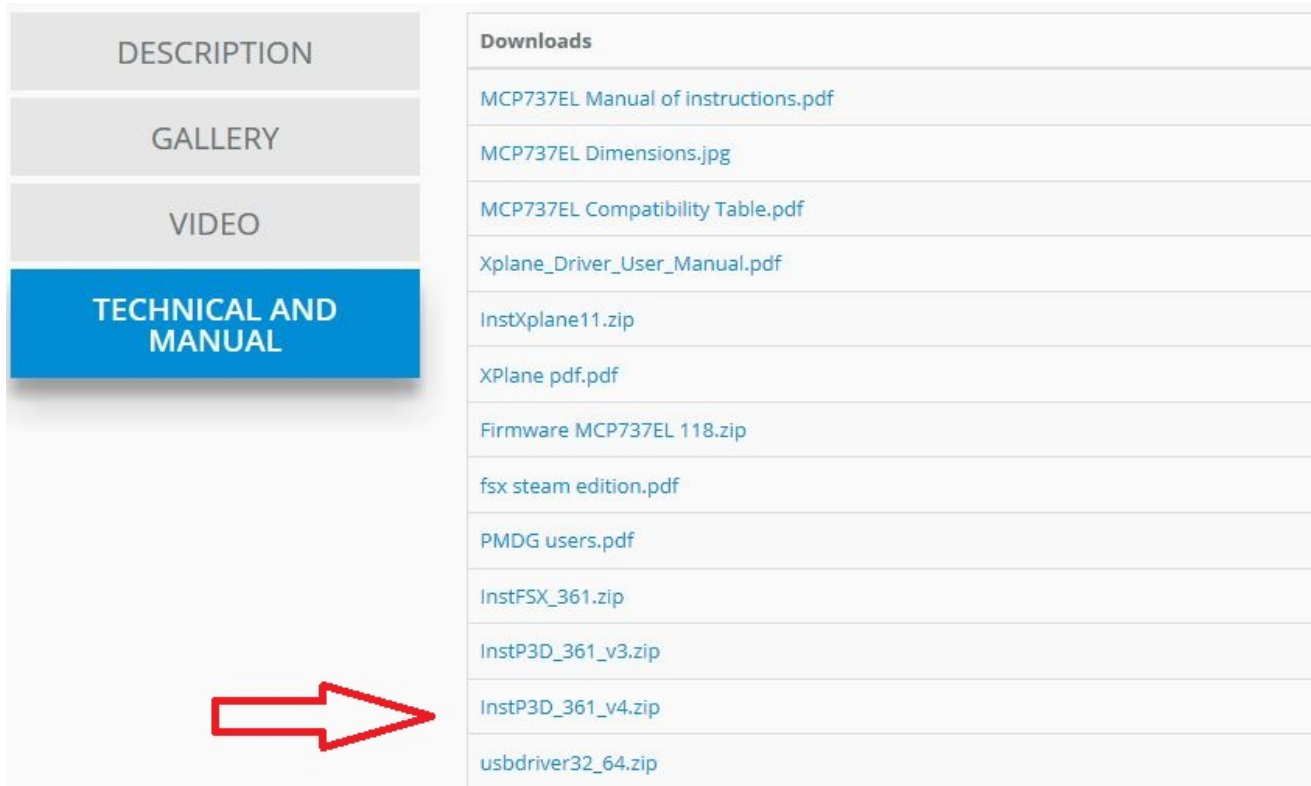
After few second the device will be loaded and the COM & LPT with a com port number will appear into device manger window.

Download the communication driver

From CPflight web site download the communication driver. Take care to select the right version because have to match with the simulator version installed on your computer. In this example was the version for P3D V4.

Also if you are Prosim, Project Magenta or XP11/XP12 users we warmly suggest to install the Cpflight communication driver because this suite include important tools to test and upgrade the hardware.

The installation will create a CPflight folder. For FXS or P3D users is mandatory to install the Cpflight driver under the simulator main folder (Eg: C:\Lockheed Martin\Prepar3D v4\CPflight). Differently would not possible to show the Cpflight driver into Simulator addon menu. FS2020 users can install everywhere also if is suggested to not install in Windows system folder. Simply on C:\ would be perfect (Eg: C:\CPflight)



The screenshot shows a website interface with a navigation menu on the left and a list of downloads on the right. The navigation menu includes buttons for 'DESCRIPTION', 'GALLERY', 'VIDEO', and 'TECHNICAL AND MANUAL'. The 'TECHNICAL AND MANUAL' button is highlighted in blue. A red arrow points to the 'InstP3D_361_v4.zip' file in the downloads list.

DESCRIPTION	Downloads
GALLERY	MCP737EL Manual of instructions.pdf
VIDEO	MCP737EL Dimensions.jpg
TECHNICAL AND MANUAL	MCP737EL Compatibility Table.pdf
	Xplane_Driver_User_Manual.pdf
	InstXplane11.zip
	XPlane pdf.pdf
	Firmware MCP737EL 118.zip
	fsx steam edition.pdf
	PMDG users.pdf
	InstFSX_361.zip
	InstP3D_361_v3.zip
	InstP3D_361_v4.zip
	usbdriver32_64.zip

Run the MCP

Before connect the MCP to the simulator is always suggested to verify that the MCP is correctly installed running the program testcplighthardware.exe available into cplflight folder

The first time you have to set the right com port number (remember the COM port number that you have seen into device manager window at page 2 of this document), select ok to assign this com port number and the MCP will start. After few second you will be able to check all the MCP functionality

Select to open the MCP test window



Test switches and Knobs. You will be able to see on the screen the hardware command



Connect the MCP to Simulator

Now you are finally able to use your MCP with P3D or FSX in combination with the most used add-on but before is better to verify your simulator version and the installations of all the feature.

For FS2020 users: Browse into your Cpflight\lib folder and run the simconnect.msi installer. This installation will start and will require only few seconds.

For FSX users be sure to have installed the FSX SP2.

For P3D users be sure to have installed SimConnect files. Simconnect is not installed automatically. Must be installed by the user. The P3D program must be not active during this installation.

To allow the Cpflight driver (that use simconnect sdk) to work properly with P3D please browse in your system on the folder where you installed P3D and find this path:

...\Lockheed Martin\Prepar3D vX\redist\interface\FSX-SP2-XPack\retail\lib\ and double click on the simconnect.msi file. This installation will start and will require only few seconds.

Run now the simulator. The first time after the Cpflight driver installation FSX or P3D will ask you if you want to load the file CPF_DLL_FSX.dll. Please agree and confirm.

After that you will be able to see into FSX or P3D add-on menu bar the Cpflight menu. If you do not see the Cpflight menu probably there is something wrong into dll.xml file. So please check:

FSX (or FS Steam) users: check into this path c:\Users\Your PC name\AppData\Roaming\Microsoft\FSX

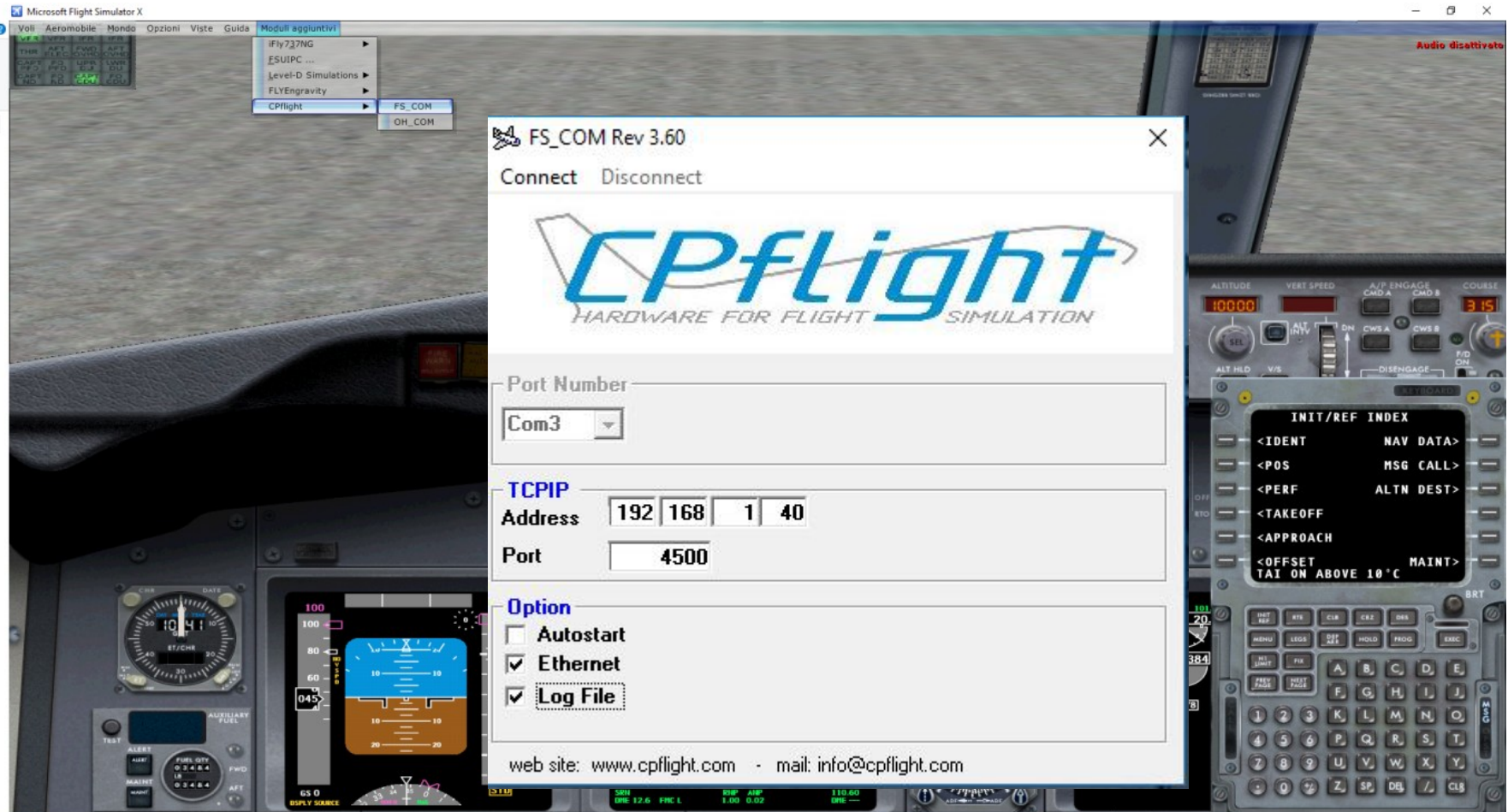
P3D users: check into this path c:\Users\Your PC name\AppData\Roaming\Microsoft\Lockheed Martin\Prepar 3D vX

Verify that this instructions are into the dll.xml file (Note that Appdata is an hide folder so you need to enable the system to show the hide files and folder):

```
.....  
.....  
<Launch.Addon>  
<Name>CPF_Menu_FSX</Name>  
<Disabled>False</Disabled>  
<Path>CPflight\CPF_DLL_FSX.dll</Path>  
</Launch.Addon>  
.....  
...
```



FSX or P3D iFly737 users: from addon menu open Cpflight menu and run the driver fs_com and select Connect into driver menu bar. Wait about 10 seconds to allow to the hardware to start and to synchronize the simulator's data (IAS, HDG.... Value and the MCP annunciator status).





For FSX or P3D users: you need to enable the sdk communication. Please browse to you FSX or P3D folder and open with a text editor the file 737NGX_Options.ini located into c:\....\Your Simulator folder\PMDG\PMDG737NGX. To the bottom of this file please add this 2 lines:

[SDK]
EnableDataBroadcast = 1

After that save and close the file and run your simulator loading a PMDG flight, Run FS_COM driver, Select Connect Menu of the driver window and wait about 10 seconds to allow to the hardware to start and to synchronize the simulator data.

For FS2020 users please refer to this video:<https://youtu.be/A5aQKhORZjM>





For P3D users: You have to enable communication output between PMDG777X and CPFlight hardware open the file 777X_Options.ini located under your simulator folder (E.g. c:\....\Your Simulator folder\PMDG\PMDG777X)

To the bottom of this file please add this 2 lines:

```
[SDK]  
EnableDataBroadcast=1
```

Then save and close the file and load a PMDG777X flight and run FS_COM driver to interface



Due to the differences between MCP777 and MCP737 and MCP747 panels please refer to the follow table to find the right corrispondence

B777	B737
CLB CON	N1
A/T	SPEED
PUSH SPD KNOB	SPD INT
IAS/MACH	C/O
LNAV	LNAV
VNAV	VNAV
FLCH	LVL CHG
HOLD	HDG SEL
PUSH HDG KNOB	CMD B
VS / FPA	V/S
HOLD	ALT HOLD
PUSH ALT KNOB	ALT INTV
APP	APP
LOC	VOR LOC
A/P	CMD A
HDG TRK	CWSA
V/S FPA	CWSB

B777	B747
CLB CON	THR
A/T	SPD
PUSH SPD KNOB	PUSH SPD KNOB
IAS/MACH	SEL
LNAV	LNAV
VNAV	VNAV
FLCH	FLCH
HOLD	HOLD
PUSH HDG KNOB	PUSH HDG KNOB
VS / FPA	V/S
HOLD	HOLD
PUSH ALT KNOB	PUSH ALT KNOB
APP	APP
LOC	LOC
A/P	CMD L
HDG TRK	CMD C
V/S FPA	CMD R



For P3D users: To enable communication output between PMDG747 Queen of the skies and CPFlight hardware open the file 747X_Options.ini located under your simulator folder (E.g. c:\....\Your Simulator folder\PMDG\PMDG747)

To the bottom of this file please add this 2 lines:

[SDK]
EnableDataBroadcast=1

Then save and close the file and load a PMDG747 flight and run FS_COM driver to interface



XP11/XP12

XP11/XP12 users can interface the Cpfight MCP737EL using Midwest737Simulation driver from this web page:

<https://www.midwest737simulations.com/cpflight-plugin-for-x-plane.html>

Is payware driver, browse into Midwest737simulation web site for more informations

This driver allow to interface with Zibo737-800, IXEG B737-300, X737 and Threshold LevelUP 737-600NG, -700NG, -800NG, -900NG and -900BR.

Also Standard X-Plane 737 is managed by the driver but due to lack of important features we suggest using Zibo.



FOR PROJECT MAGENTA USERS

To enable communication with Project Magenta and Cpflyght MCP737EL please open “mcp.ini” file located into MCP folder using a text editor.

Into mcp.ini file search the key CpflyghtComm. As default the CPFlightComm will be 0 (mean not enable) .

Please add the right com port number (refer to the device manager window at page 2) .
In this example the communicatio port number is 3.

CpflyghtComm = 3.

Save the mcp.ini file and close it.

To start-up the MCP737EL you need only to run Project Magenta MCP software.
If your intention is to use Cpflyght hardware with Project Magenta software, due to upgrades and Changes, for more details and information we warmly suggest to ask directly to Project Magenta Support.