COM737
NAV737
ADF737
ATC737

This manual is intended for Flight Simulator use only and may not be used in any real world aviation application. The authors are not responsible for any errors or omissions.

FOREWORD

COM737, NAV737, ADF737 and ATC737 reproduce the main radio devices placed on the center pedestal of the Boeing 737. Depending from the aircraft model, flight company etc. there are different type of panels and also different layout on the pedestal. The usual layout use 2 COM radios, 2 NAV, 1/2 ADF and 1 ATC (Transponder) besides some other panels like the audio selector panel, rudder and aileron trim, GPWS and other.

IMPORTANT NOTES!

1- Cpflight radios are "add-on modules" and cannot be directly connected to the PC. Cpflight radio can operate only in conjunction with the CPflight MCP737 or through the CPflight USB to CPflight modules interface board "Black Box".

2- Radios can be directly connected to the MCP737USB, MCP737PRO or "Black Box" and no further hardware is required. If you need to connect the radios to the "old" RS232 MCP version an adaptor could be required; see "Daisy-chain buffer" or "Daisy-chain adapter" at:
http://www.cpflight.com/sito/purchase/purchase.asp

HARDWARE INSTALLATION

Cpflight radio panels are designed for panel mounting. At the last page of this manual you may find the mechanical dimensions. To fix the panel to your structure, use four screw in the holes located on the panel sides; the fixing holes are placed according to the standard mounting rails.

SETTING AND CONNECTIONS

IMPORTANT NOTE! Disconnect power supply from the MCP before connecting any module. If you change anything in your module connections, you have to "reset" the MCP (disconnect and reconnect power supply); external modules are detected by the MCP during the power-up procedure.

Sockets for radio modules connection are on the back of panel. Modules are arranged for daisy-chain connection so there are only two sockets (Figure 1 "A" and "B"). Radio modules do not require an external power supply adapter since they are directly supplied by the MCP.
Connect a terminal of the enclosed 5 pole cable to one of the 5 pole sockets (it make no difference to which of two you connect) and the other side of cable to the AUX socket of the MCP. If you have other modules (for instance an EFIS selector) you will connect it to the second socket of the EFIS and so on (see Figure 2).

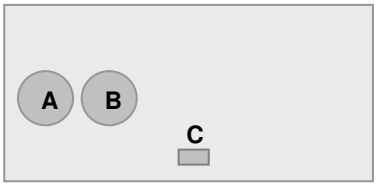

Figure 1: *Connectors and setting (bottom view)*

COM737 may operate as COMM1 or COMM2. To select COMM1 insert the jumper (Figure 1 "C") to the '1' position; obviously you will insert the link to the '2' position to make it work as COMM2. The same may be considered for NAV737 (NAV1 or NAV2) and ADF737 (ADF1 or ADF2). Transponder is single station and does not have the link "C". If you have two COM737 (and/or NAV737 and ADF) connected in the chain pay attention to not assign the same number (link C), since this may generate a communication conflict that can affect all the connected modules. Radio modules do not require any software configuration; you may reconnect MCP power supply and start it up, the MCP will scan the line and recognize your connected modules.

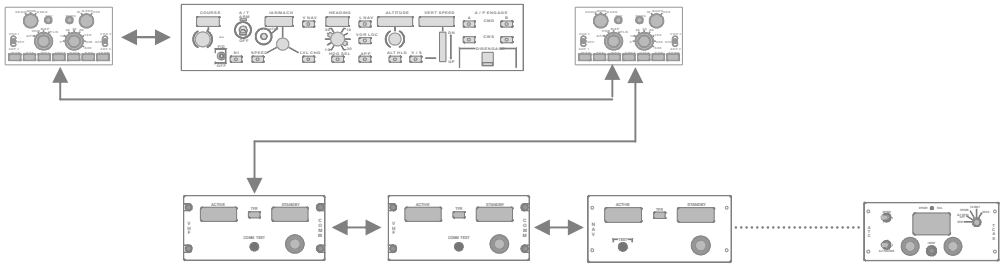

Figure 2: *Typical configuration: the MCP is connected to the CP EFIS, from the CP EFIS to the F/O EFIS, from the F/O EFIS to the COMM1 radio etc…*

A “Daisy-chain adapter” is optionally available at **http://www.cpflight.com/sito/purchase/purchase.asp**
The adapter allows splitting the module connection to more independent connectors, this make easier to arrange the connections and allows connecting new series and old series (RS232 series) modules together. Furthermore the “Daisy-chain multiplier” allows to independently managing the backlight of the connected modules through an external switch (or a potentiometer if you need to regulate the backlight brightness).

FUNCTIONING

The compatibility and the supported functions of the extension modules are related to the used software (default FS aircraft, Project magenta, PMDG etc.). It is important to know that the hardware have not its own intelligence on board, it establish an interface with the connected software; logics and supported functions are managed by the software itself. Using hardware modules please refer to the hardware panel and display only as, depending by the situation, there can exists differences between the FS virtual modules and the hardware panels indications.

DIMENSIONS

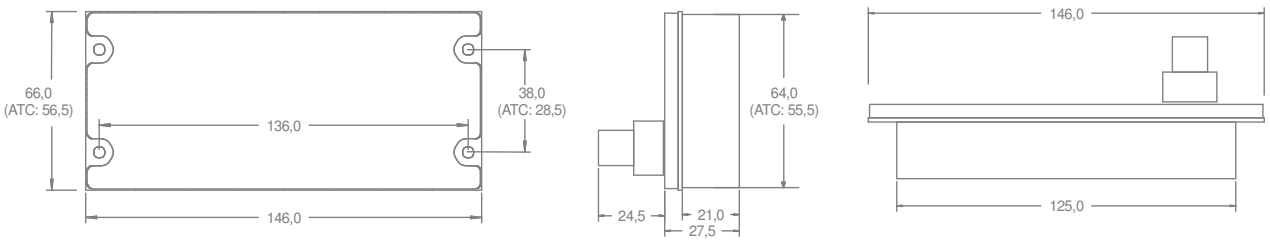

Figure 2 (dimensions in millimeters)

LINKS

Web site:	http://www.cpflight.com
Support:	http://www.cpflight.com/sito/help/mainsupport.asp
Email:	info@cpflight.com