

Engine Display Control Module
S737-MIP-M-BL-A35-0158

Datasheet - EDC Module V3.5 - Rev2.1



Module Dimensions: (WxHxD) mm3	154 x 114 x D mm3 <i>D = Depends on the Variant</i>
Module Line:	Alpha
Backlight (12V):	Yes, Warm White
Backpanel:	Yes, Specific PCB
Hardware Interface: (See Chapter 1.2)	To be connected to a Control Board like SimCard Ethernet, IOCard USB, etc.
Knobs:	Realistic Injection Plastic Knobs
Plug Ready Module:	Yes
Simulator Model:	Sim737NG
Scale:	1:1
Price (without VAT)	Web: Shop

1 Compatibility

1.1 Software Compatibility

This module uses IDC connectors to interface with electronic I/O Boards, they cannot be connected directly to a Computer, it has to be through an electronic Board (see hardware compatibility). If the electronic board is a SimCard, then this module is compatible with the following Add-Ons:

iFly737			Prosim737			Project Magenta			PMDG 737NG			SimAvionics		
FSX	P3D	XPLANE	FSX	P3D	XPLANE	FSX	P3D	XPLANE	FSX	P3D	XPLANE	FSX	P3D	XPLANE
X	X	?	X	X	?	X	X	X	X	X	?	X	X	?

X	Fully compatible, scripts available in downloads sect.
X	Fully compatible, no scripts available (under development)
X	Compatible with some add-on limitations
?	Pending confirmation for the add-on company

FSX	Microsoft Flight Simulator X
P3D	Lockheed Martin Prepar3D
X-Plane	X-Plane

This module has been designed to be connected directly to the “**CEIP Electronic Backpanel**”. This backpanel is an option where cables or other elements are not necessary. If you want to use it in another configuration, just connect the flat ribbon cables following the indications on the “**Wiring Schedule**”.

1.2 Hardware Compatibility (I/O Boards)

SimCards Ethernet	IOCards	Phidgets	MIP737	Pokeys USB	Arduino
Yes (Recommended)	Yes	Yes	Yes	No Information	Yes

1.3 Module Backpanel (PCB) Compatibility

This datasheet is valid for the following module backpanels (PCB):

V1	V1.5	V2	V3	V3.5			
No	No	No	No	Yes			

2 Abbreviations

PRM	Plug Ready Module
MIP	Main Instrument Panel
CAIP	Captain Instrument Panel
FOIP	First Officer Instrument Panel
CEIP	Center Instrument Panel
EDC	Engine Display Control

3 Customization

N1 SET & SPD SET Type:

- SINGLE - Two Encoder
- DUAL - Two Dual Concentric Rotary-Encoder

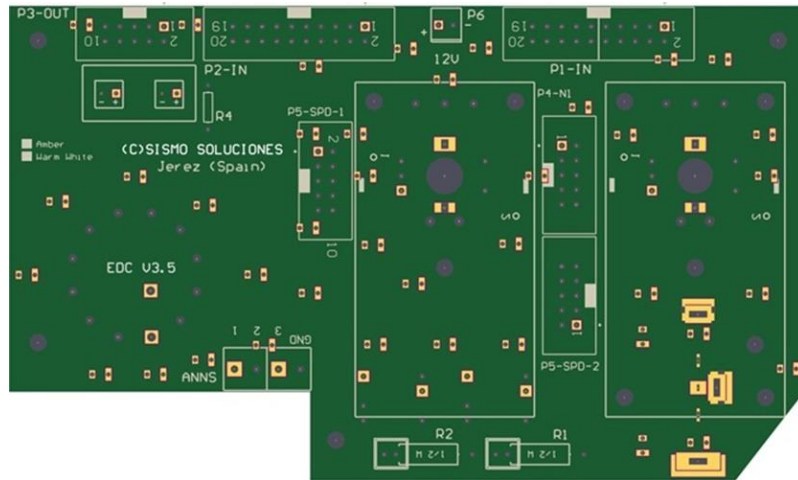
FUEL FLOW Switch Cap:

- ST CAP - Standard Lever Cap
- SP CAP - Special Lever Cap

4 Parts included

- 1 EDC Module, fully assembled and ready to be installed on the MIP.
- 2 un. 20 pins flat ribbon cable (length 25cm). For other lengths, please contact Sismo.
- 1 un. 10 pins flat ribbon cable (length 25cm). For other lengths, please contact Sismo.
- 4 painted screws M4x12 to fix the module to THE MIP casing (Fully compatible with the MIP casing of Sismo.)

5 Backpanel Connectors



6 Wiring Schedule

6.1 Inputs

Function	State
Encoder SPF REF SET A	
Push-Button SPF REF **	
Rotary SPF REF T *	
Rotary SPF REF VREF *	
Not used	
Not used	
Rotary SPF REF V1 *	
Rotary SPF REF AUTO *	
Not used	
Not used	

P1-IN	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20

State	Function
	Encoder SPF REF SET B
	Rotary SPF REF SET *
	Push-Button ENG
	Rotary SPF REF WT *
Common GND for input pins 1 to 8	
	Rotary SPF REF VR *
	Not used
	Not used
	Not used
Common GND for inputs 12 to 15	

Function	State
Encoder N1 SET A	ON
Push-Button N1 **	ON
Rotary N1 AUTO *	ON
Rotary N1 1 *	ON
Not used	
Rotary AUTOBRAKE RTO	ON
Rotary AUTOBRAKE 1	ON
Rotary AUTOBRAKE 3	ON
Switch FUEL FLOW RESET	ON
Not used	

P2-IN	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20

State	Function
ON	Encoder N1 SET B
ON	Rotary N1 BOTH *
ON	Push-Button SYS
ON	Rotary N1 2*
Common GND for inputs 1 to 8	
ON	Rotary AUTOBRAKE OFF
ON	Rotary AUTOBRAKE 2
ON	Rotary AUTOBRAKE MAX
ON	Switch FUEL FLOW USED
Common GND for inputs 11 to 18	

Note: *Only available for EDC with Dual Concentric Rot-Enc. ** Only available for EDC without Dual Concentric Rot-Enc.

6.2 Outputs

Function	State	P3-OUT		State	Function
Ann AUTO BRAKE DISARM	ON	1	2	ON	Ann ANTI SKID INOP *
Ann LE FLAPS TRANSIT *	ON	3	4	ON	Ann LE FLAPS EXT *
Not used		5	6		Not used
Not used		7	8		Not used
Not used		9	10	Common GND for	

Note: *See "Other hardware features"(Below).

6.3 Other

P4-N1	Internal Inputs for Dual Concentric Rotary-Encoder N1
P5-SPD-1	Internal Inputs for Dual Concentric Rotary-Encoder SPD
P5-SPD-2	Internal Inputs for Dual Concentric Rotary-Encoder SPD

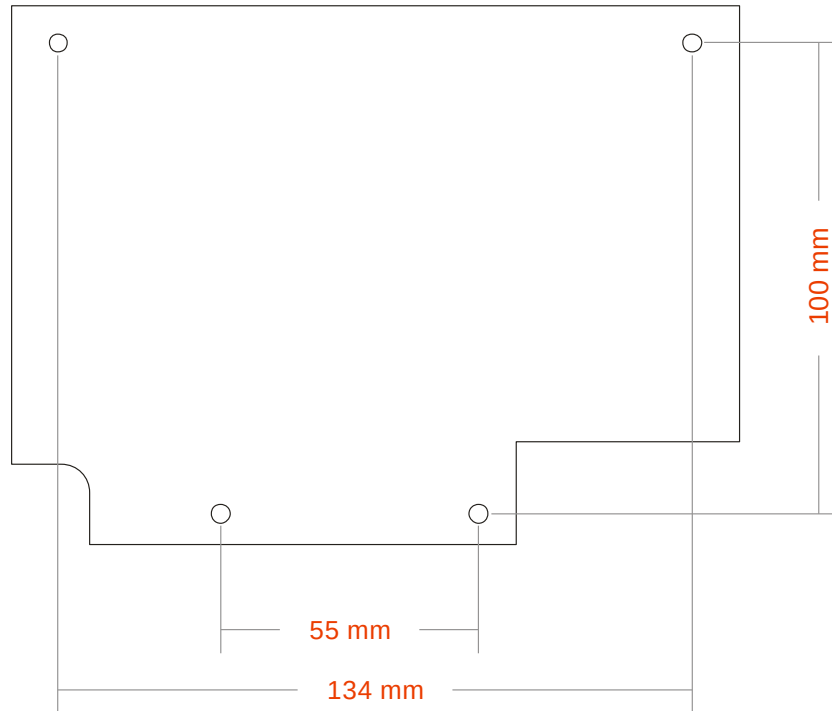
ANNS	
1	Ann ANTI SKID INOP
2	Ann LE FLAPS TRANSIT
3	Ann LE FLAPS EXT
GND	GND (for Outputs 1 to 3)

Note: Available to connect the CEIP Annunciators

6.4 Backlight

P6-12V	
Backlight	12V for backlight. This voltage can be provided directly from a 12 V DC power supply or can be provided by a "dimmer backlighting board" to have the dimming functionality available.

7 Screws Position



8 Related Documentation

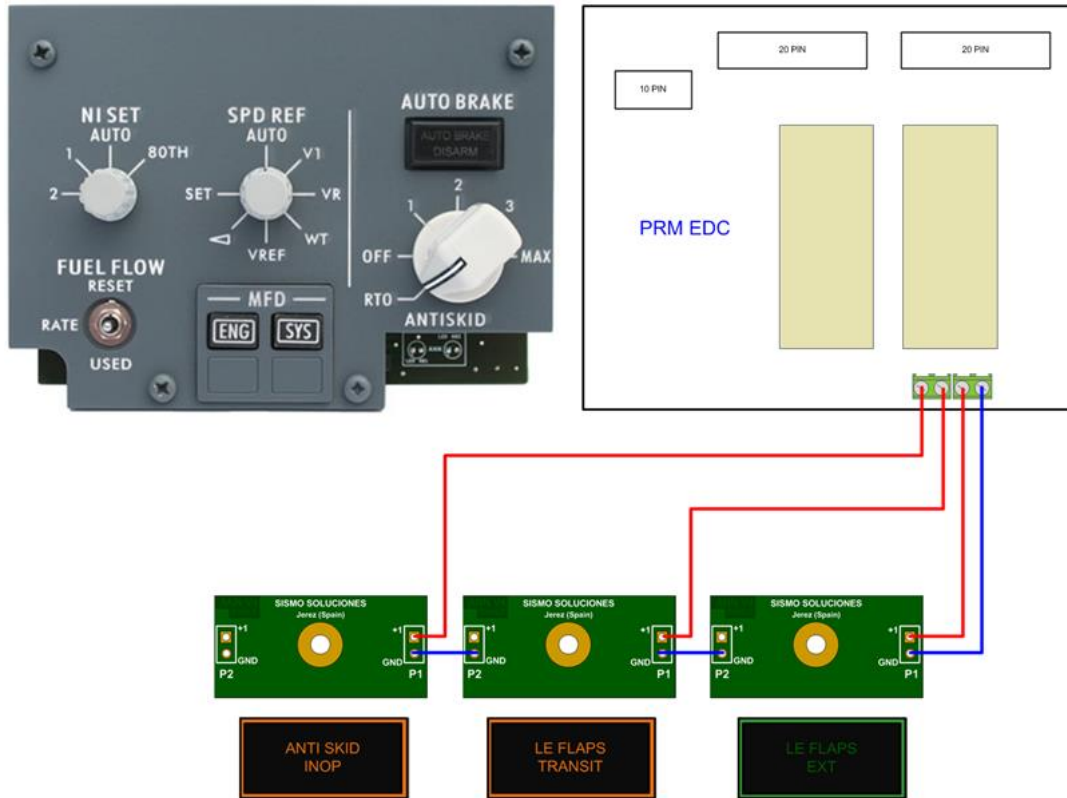
ID	DOCUMENT	Revision
01	User Manual – SimCards Ethernet	See the latest on our website
02	User Manual – MIP Ethernet	See the latest on our website
03	User Manual – Hookup & Wiring Guideline	See the latest on our website
04	Wiring Layout – CAIP, FOIP, CEIP	See the latest on our website

9 Pictures



10 Other hardware features

CEIP Annunciators Connections



End of Document