

**ADF Control Panel Module**
**S737-PED-M-AL-A32-1519**

Datasheet - ADF Control Panel Module V3.2 - Rev1.1



Module Dimensions: (WxHxD) mm3	147 x 66 x 16 mm3 <i>High of Knobs Not included</i>
Module Line:	<b>Alpha</b>
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)	<i>Web: Shop</i>

www.sismo-soluciones.com

## 1 Compatibility

### 1.1 Software Compatibility

This module uses IDC connectors to interface with the electronic I/O Board, therefore 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 “Sismo Pedestal Backpanel V1” or superior. This backpanel is an option where cables or other elements are not necessary. If you want to use it in other configuration, just connect the flat ribbon cables following the indications of 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	V2	V3	V3.1	V3.2			
No	No	No	No	Yes			

## 2 Abbreviations

PRM	Plug Ready Module
ADF	ADF Panel Module

## 3 Customization

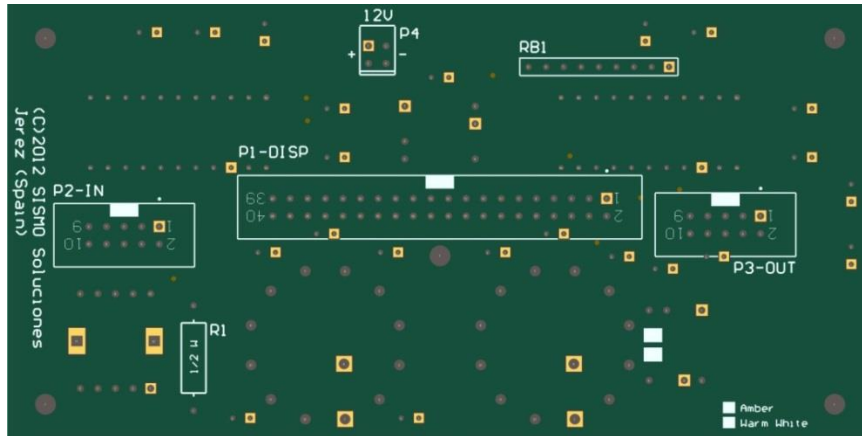
Control Board Type:

SC	This variant of ADF is valid to be connected with a SimCard Ethernet
OTHER	This variant of ADF is valid to be connected with other I/O Board like IOCards, etc. For more details visit the shop in the web <a href="http://www.sismo-soluciones.com">www.sismo-soluciones.com</a>

## 4 Parts included

- 1 ADF Module, fully assembled and ready to be installed in Pedestal.
- Only in configuration “OTHER”:
  - 1 Un. 10-pin flat ribbon cable (25cm length). For other lengths, please contact to Sismo.
  - 1 Un. 40-pin flat ribbon cable (25cm length). For other lengths, please contact to Sismo.

## 5 Backpanel Connectors



## 6 Wiring Schedule

### 6.1 INPUT

Function	State
Dual Rot Encoder – Bottom Knob	Set A
Dual Rot Encoder – Upper Knob	Set A
Push-Button TFR	ON
Not used	
Not used	

P2-IN	
1	2
3	4
5	6
7	8
9	10

State	Function
Set B	Dual Rot Encoder – Bottom Knob
Set B	Dual Rot Encoder – Upper Knob
ON	Push-Button TEST
	Not used
Common GND	

**Note :** The encoders are Elma 37 type

### 6.2 OUTPUT

Function	State
Not used	
Led ADF Active	ON
Led ADF Standby	ON
Not used	
Not used	

P3-OUT	
1	2
3	4
5	6
7	8
9	10

State	Function
	Not used
ON	Led ANT Active
ON	Led ANT Standby
	Not used
Common GND	

Note: Remark about the Output +5Vcc= ON / 0 Vcc = OFF

### 6.3 DISPLAY

#### 6.3.1 SC-Variant

GROUP 1 (8)	Function	P1-DISP	Function
	Display 7S - Segment A - Displays 1 to 8	1   2	Display 7S - Segment B - Displays 1 to 8
	Display 7S - Segment C - Displays 1 to 8	3   4	Display 7S - Segment D - Displays 1 to 8
	Display 7S - Segment E - Displays 1 to 8	5   6	Display 7S - Segment F - Displays 1 to 8
	Display 7S - Segment G - Displays 1 to 8	7   8	Display 7S - DP - Displays 1 to 8

GROUP 1 (8 displays)	Not used
	Display1 - ADF Active 1 (right display)
	Display3 - ADF Active 3
	Display5 - ADF Active 5 (left display)
	Not used
	Not used
GROUP 2 (8 displays)	Display 7S - Segment <b>A</b> - Displays 9 to 16
	Display 7S - Segment <b>C</b> - Displays 9 to 16
	Display 7S - Segment <b>E</b> - Displays 9 to 16
	Display 7S - Segment <b>G</b> - Displays 9 to 16
	Not used
	Display9 - ADF Standby 1 (right display)
	Display11 - ADF Standby 3
	Display13 - ADF Standby 5 (left display)
	Not used
	Not used

9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40

Common GND - GND for pins 1 to 8
Display2 - ADF Active 2
Display4 - ADF Active 4
Not used
Not used
Common GND - GND for displays 1 to 8
Display 7S - Segment <b>B</b> - Displays 9 to 16
Display 7S - Segment <b>D</b> - Displays 9 to 16
Display 7S - Segment <b>F</b> - Displays 9 to 16
Display 7S - <b>DP</b> - Displays 9 to 16
Common GND - GND for pins 9 to 16
Display10 - ADF Standby 2
Display12 - ADF Standby 4
Not used
Not used
Common GND - GND for displays 9 to 16

### 6.3.2 OTHER Variant

Function	
GROUP 1 (8 displays)	Display 7S - Segment <b>A</b> - For All Displays (CC)
	Display 7S - Segment <b>C</b> - For All Displays (CC)
	Display 7S - Segment <b>E</b> - For All Displays (CC)
	Display 7S - Segment <b>G</b> - For All Displays (CC)
	Not used
	Display1 - ADF Active 1 (right display)
	Display3 - ADF Active 3
	Display5 - ADF Active 5 (left display)
	Not used
	Not used
GROUP 2 (8 displays)	Display 7S - Segment <b>A</b> - For All Displays (CC)
	Display 7S - Segment <b>C</b> - For All Displays (CC)
	Display 7S - Segment <b>E</b> - For All Displays (CC)
	Display 7S - Segment <b>G</b> - For All Displays (CC)
	Not used
	Display9 - ADF Standby 1 (right display)
	Display11 - ADF Standby 3
	Display13 - ADF Standby 5 (left display)
	Not used
	Not used

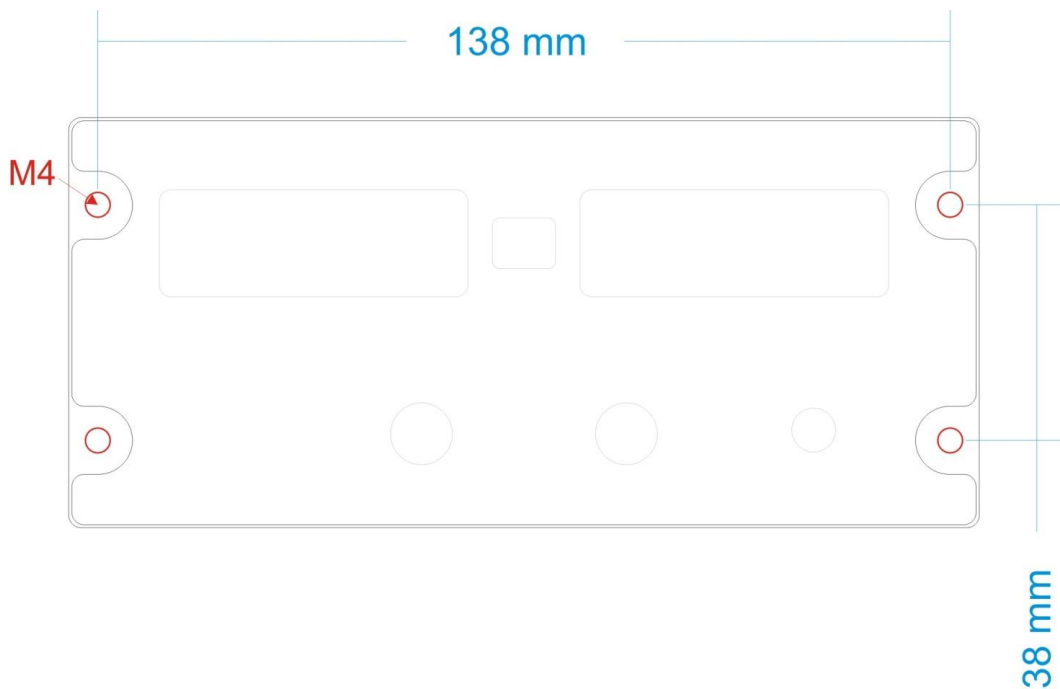
P1-DISP	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40

Function	
Display 7S - Segment <b>B</b> - For All Displays (CC)	
Display 7S - Segment <b>D</b> - For All Displays (CC)	
Display 7S - Segment <b>F</b> - For All Displays (CC)	
Display 7S - <b>DP</b> - For All Displays (CC)	
Common GND - GND for pins 1 to 8	
Display2 - ADF Active 2	
Display4 - ADF Active 4	
Not used	
Not used	
Common GND - GND for displays 1 to 8	
Display 7S - Segment <b>B</b> - For All Displays (CC)	
Display 7S - Segment <b>D</b> - For All Displays (CC)	
Display 7S - Segment <b>F</b> - For All Displays (CC)	
Display 7S - <b>DP</b> - For All Displays (CC)	
Common GND - GND for pins 9 to 16	
Display10 - ADF Standby 2	
Display12 - ADF Standby 4	
Not used	
Not used	
Common GND - GND for displays 9 to 16	

## 6.4 Backlight

<b>P4 - 12V</b>	
Backlight	12V for backlight. This voltage can be provided directly from a 12 V DC power supply or can be provided by “dimmer backlighting board” to have the dimming functionality available.

## 7 DZUS Position



## 8 Related Documentation

ID	DOCUMENT	Revision
01	User Manual – SimCards Ethernet	See the latest on our website
02	Datasheet – Pedestal Backpanel	See the latest on our website

## 9 Pictures

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**End of Document**