

NAV Panel Module

S737-PED-M-AL-A32-1521

Datasheet - NAV 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:	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

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 though 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
NAV	NAV Panel Module

## 3 Customization

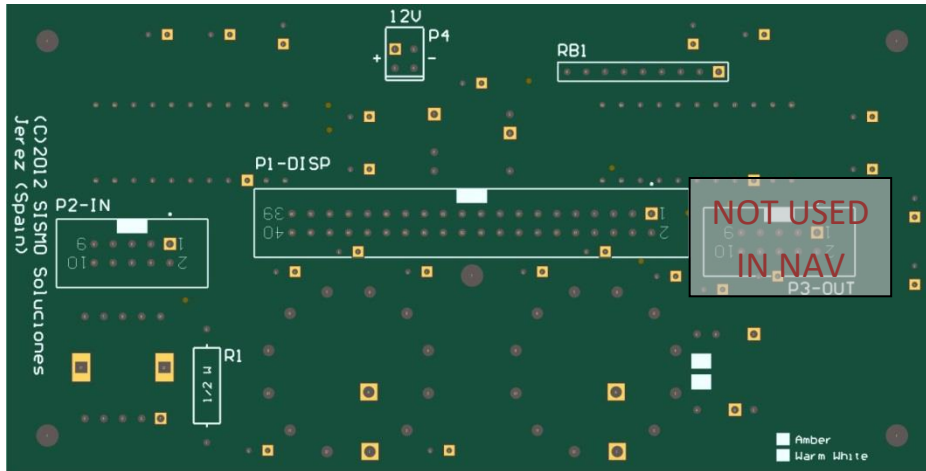
Control Board Type:

SC	This variant of NAV is valid to be connected with a SimCard Ethernet
OTHER	This variant of NAV 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 NAV 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 DISPLAY

#### 6.2.1 SC-Variant

	Function	P1-DISP	Function
GROUP 1 (8 displays)	Display 7S - Segment A - Displays 1 to 8	1	2
	Display 7S - Segment C - Displays 1 to 8	3	4
	Display 7S - Segment E - Displays 1 to 8	5	6
	Display 7S - Segment G - Displays 1 to 8	7	8
	Not used	9	10
	Display1 - NAV Active 1 (right display)	11	12
	Display3 - NAV Active 3	13	14
	Display5 - NAV Active 5 (left display)	15	16
	Not used	17	18
	Not used	19	20
GRO	Display 7S - Segment A - Displays 9 to 16	21	22
	Display 7S - Segment C - Displays 9 to 16	23	24
			Display 7S - Segment B - Displays 1 to 8
			Display 7S - Segment D - Displays 1 to 8
			Display 7S - Segment F - Displays 1 to 8
			Display 7S - DP - Displays 1 to 8
			Common GND - GND for pins 1 to 8
			Display2 - NAV Active 2
			Display4 - NAV Active 4
			Not used
			Not used
			Common GND - GND for displays 1 to 8
			Display 7S - Segment B - Displays 9 to 16
			Display 7S - Segment D - 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 - NAV Standby 1 (right display)
Display11 - NAV Standby 3
Display13 - NAV Standby 5 (left display)
Not used
Not used

25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40

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
Display 10 - NAV Standby 2
Display12 - NAV Standby 4
Not used
Not used
Common GND - GND for displays 9 to 16

### 6.2.2 OTHER Variant

Function	
<b>GROUP 1 (8 displays)</b>	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 - NAV Active 1 (right display)
	Display3 - NAV Active 3
	Display5 - NAV Active 5 (left display)
	Not used
	Not used
<b>GROUP 2 (8 displays)</b>	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 - NAV Standby 1 (right display)
	Display11 - NAV Standby 3
	Display13 - NAV Standby 5 (left display)
	Not used
Not used	

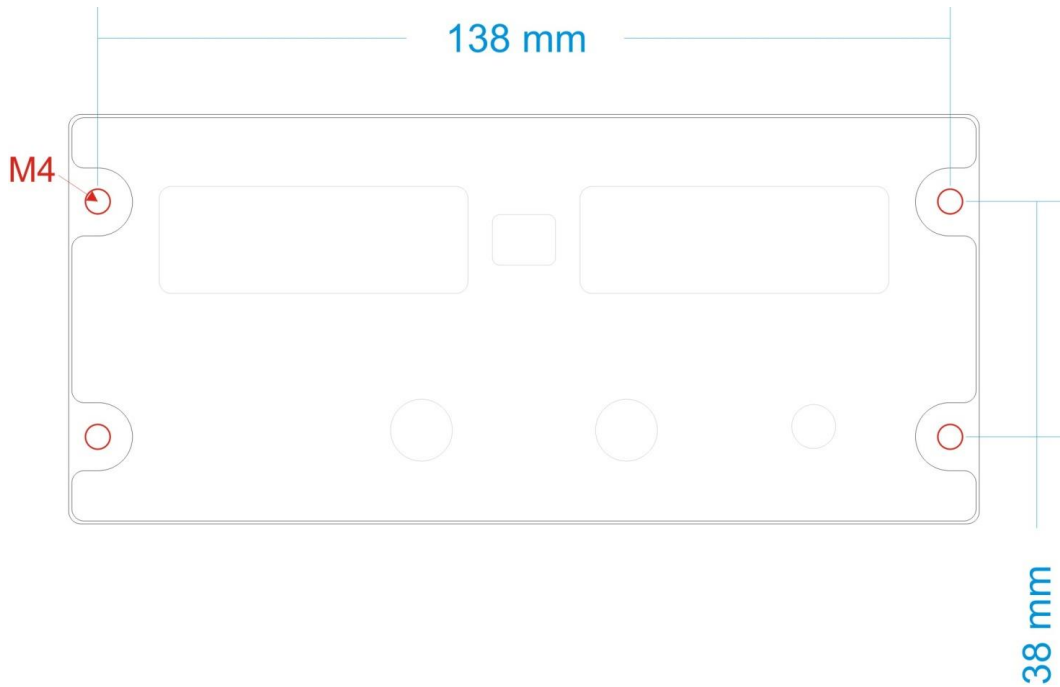
P1-DISP	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40

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 - NAV Active 2	
Display4 - NAV 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 - NAV Standby 2	
Display12 - NAV Standby 4	
Not used	
Not used	
Common GND - GND for displays 9 to 16	

### 6.3 Backlight

P4 - 12V	
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

--	--

End of Document