

IRS System Display Unit Module Dual

S737-AOH-M-YL-A10-1031

Datasheet - IRS System Display Unit Module V1.0 - Rev1.3.docx



Module Dimensions: (WxHxD) mm3	TBD
Module Line:	Alpha
Backlight (12V):	Yes, Warm White *Keyboard not backlighted
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 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 "Sismo AFT Backpanel V2" or higher. 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

Display Module:

V1	V2						
No	Yes						

DSPL Panel Module Dual/single:

V1							
Yes							

Keyboard Panel:

V1							
Yes							

2 Abbreviations

PRM	Plug Ready Module
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3 Customization

There are two customizations:

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

Dual	DSPL Panel Module with Dual concentric rotary encoder
Single	DSPL Panel Module Single with simple rotary

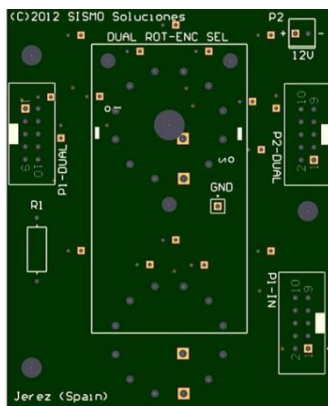
4 Parts included

- One IRS System Display Unit Module, fully assembled and ready to be installed on the AFTO. One IRS System Display Unit Module contains the following:
 - One Display Module, fully assembled and ready to be installed on the AFTO
 - One DSPL Panel Module Dual/Single, fully assembled and ready to be installed on the AFTO
 - One Keyboard Panel, fully assembled and ready to be installed on the AFTO
- The following Flat Ribbon cable is included:
 - 1 Un. 40-pin flat ribbon cable (25cm length). For other lengths, please contact to Sismo.
 - 1 Un. 20-pin flat ribbon cable (25cm length). For other lengths, please contact to Sismo.
 - 1 Un. 10-pin flat ribbon cable (25cm length). For other lengths, please contact to Sismo.

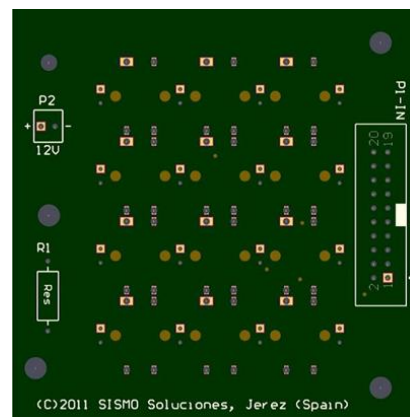
5 Backpanel Connectors



Display Module



DSPL Panel Module Dual/Single



Keyboard Panel

6 Wiring Schedule

6.1 Display module

6.1.1 SC Configuration Displays

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		Function	P1 - DISP		Function
GROUP 1 (8 displays)		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
		Not used	9	10	Common GND - GND for pins 1 to 8
		Display1 - 1 (right display)	11	12	Display2 - 2
		Display3 - 3	13	14	Display4 - 4
		Display5 - 5	15	16	Display6 - 6
		Display7 - 7 (left display)	17	18	Not used
		Not used	19	20	Common GND - GND for displays 1 to 8
GROUP 2 (8 displays)		Display 7S - Segment A - Displays 9 to 16	21	22	Display 7S - Segment B - Displays 9 to 16
		Display 7S - Segment C - Displays 9 to 16	23	24	Display 7S - Segment D - Displays 9 to 16
		Display 7S - Segment E - Displays 9 to 16	25	26	Display 7S - Segment F - Displays 9 to 16
		Display 7S - Segment G - Displays 9 to 16	27	28	Display 7S - DP - Displays 9 to 16
		Not used	29	30	Common GND - GND for pins 9 to 16
		Display9 - 8 (right display)	31	32	Display10 - 9
		Display11 - 10	33	34	Display12 - 11
		Display13 - 12	35	36	Display14 - 13 (left display)
		Not used	37	38	Not used
		Not used	39	40	Common GND - GND for displays 9 to 16

6.1.2 Other Configuration Displays

For control boards like **IOCards**, segment pins of both display groups have to be connected. That is, connect the following pins each other:

Pin1-Pin21, Pin2-Pin22, Pin3-Pin23, Pin4-Pin24, Pin5-Pin25, Pin6-Pin26, Pin7-Pin27, Pin8-Pin28, Pin10-Pin30

6.1.3 Backlight

P2 - 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.

6.2 DSPL Panel Module Dual

6.2.1 Input

6.2.1.1 Dual Rotary Encoder Option

Function	State
Encoder DIP SEL A	ON
Rotary1 TEST	ON
Rotary3 PPOS	ON
Rotary5 HDG/STS	ON
Not used	

P1-IN	
1	2
3	4
5	6
7	8
9	10

State	Function
ON	Encoder DIP SEL B
ON	Rotary2 TK/GS
ON	Rotary4 WIND
ON	Rotary 1 SYS DSPL R
Common GND	

6.2.1.2 Single Rotary Option

Function	State
Not used	ON
Rotary1 HDG/STS	ON
Rotary3 PPOS	ON
Rotary5 TEST	ON
Not used	

P1-IN	
1	2
3	4
5	6
7	8
9	10

State	Function
ON	Not used
ON	Rotary2 WIND
ON	Rotary4 TK/GS
ON	Rotary1 SYS DSPL R
Common GND	

6.2.2 Backlight

P2 - 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.

6.3 Keyboard Panel

6.3.1 Input

Function	State
Not used	
Not used	
Push-Button KEY 0	ON
Push-Button KEY 2	ON
Not used	
Push-Button KEY 4	ON
Push-Button KEY 6	ON
Push-Button KEY 8	ON
Push-Button KEY ENT	ON
Not used	

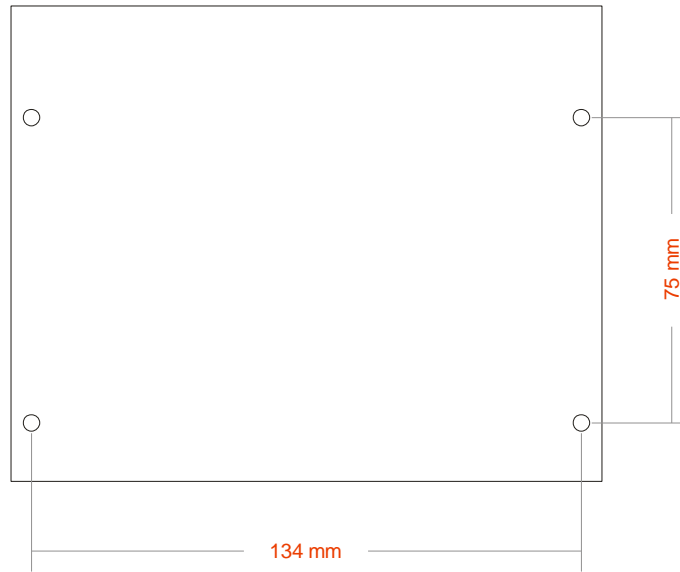
P1-IN	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20

State	Function
	Not used
	Not used
ON	Push-Button KEY 1
ON	Push-Button KEY 3
Common GND	
ON	Push-Button KEY 5
ON	Push-Button KEY 7
ON	Push-Button KEY 9
ON	Push-Button KEY CLR
Common GND	

6.3.2 Backlight

The Keyboard module does not have backlighting.

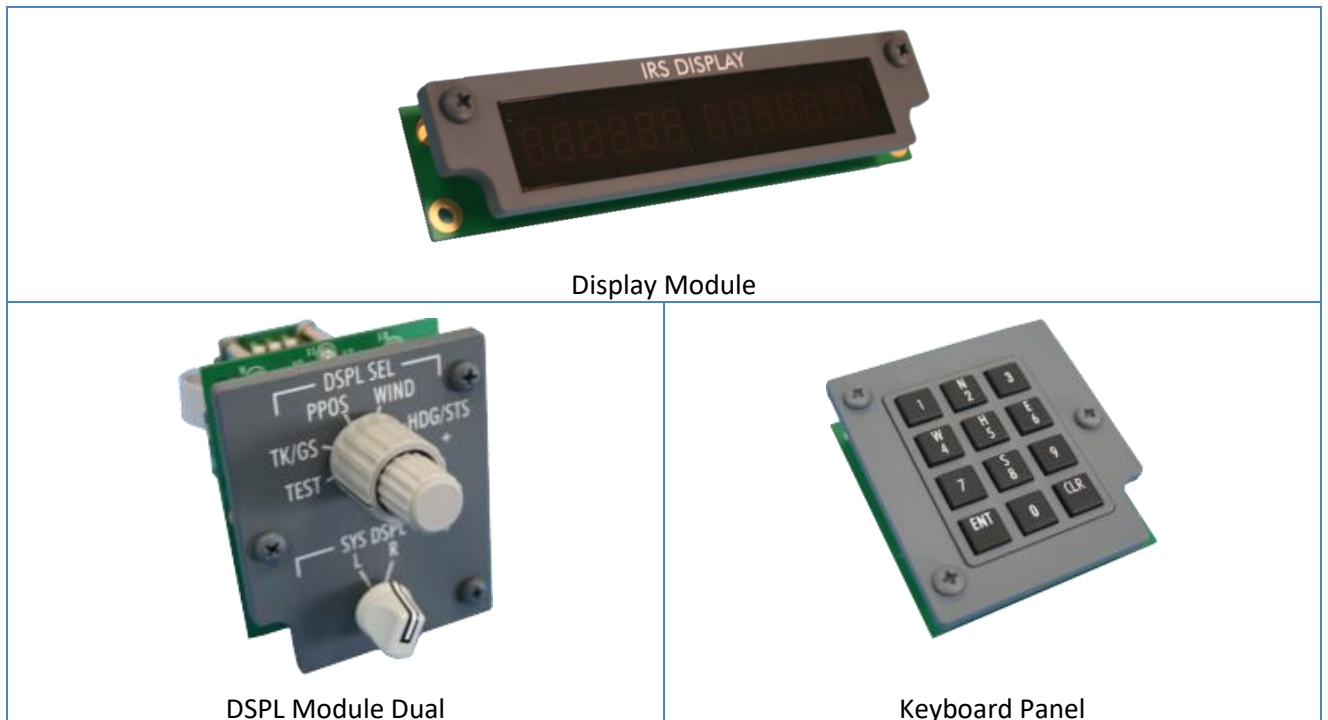
7 DZUS Position



8 Related Documentation

ID	DOCUMENT	Revision
01	User Manual – SimCards Ethernet	See the latest on our website

9 Pictures



End of Document