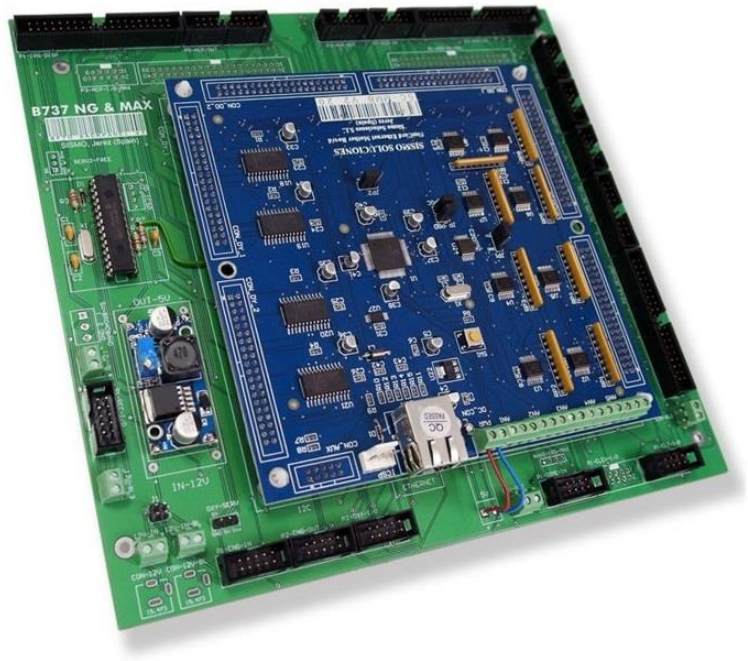
Electronic Baseplate AFT

737NG V3: S7NG-AOH-B-AL-A30-1067
737MAX V3: S7MX-AOH-B-AL-A30-1068

Datasheet - Electronic Baseplate AFT V3.0 - Rev1.0.docx



Module Dimensions: (WxHxD) mm3	210 x230 x 40
Simulator Model:	Sim737NG Sim737MAX
SimCards Included	Yes
Interface:	Interface module to be used with SimCards Ethernet.
Price (without VAT):	*Web: Shop*

1 Compatibility

1.1 Software Compatibility

This board uses IDC connectors and screwed connectors to interface modules with electronic I/O boards from the SimCard Ethernet Family, 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

The table above is valid for the 737NG, as the Add-ons companies are currently working on the development of the 737MAX software.

1.2 Hardware Compatibility (I/O Boards)

SimCards Ethernet	IOCards	Phidgets	MIP737	Pokeys USB	Arduino
Yes	No	No	No	No	No

1.3 Module Backpanel (PCB) Compatibility

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

V1	V2	V2.1	V3				
No	No	No	Yes				

Note: *The difference between the versions is internal and does not represent any difference in functionality or quality.*

2 Abbreviations & Definitions

GIC	General Interface Card
IDC Cable	A standard industrial cable with a variable number of wires, aka Flat ribbon cable.
SC-MB	Simcard Motherboard Ethernet

3 Introduction

A baseplate is a professional solution which has been developed by Sismo Soluciones to avoid unnecessary welding and simplify the mounting process for enthusiasts around the globe.

As you may imagine, if you are building a Plug&Fly module from scratch, you will need to make a great number of connections between the SC-MB and the electronics. This can be done by soldering and wiring by using our GIC Cards, but it is a lengthy process.

A baseplate is essentially a full interface card which follows the contact map of Sismo Soluciones. With this solution, the only necessary action for the user is to connect the Modules in the correct place by following the contact map, contained below. These modules can be connected onto the baseplate with Flat Ribbon Cables.

The AFT does not have a dimming circuit or relay system. The backlight is adjusted through the FWD.

4 Parts included

One Baseplate for the AFT, with all the green connectors for power supplies and black connectors for the IDC Cables already installed.

- SC-MB is included and is installed directly on the Baseplate with bottom pins.
- One AC to AC Converter of 12v to 5v, fully mounted.
- Ready to control servos, as an integrated SimCard 14 Servos (SC-14SERV-DB).
- SimCard 64 DIO (Inputs-Outputs).
- Ethernet cable RJ-45.
- Power supply 12v 2A.

5 Customization

There is no customization for this Baseplate.

6 Wiring Schedule

A wiring schedule is a manual for the structure of the circuit.

If you are building an AFT with Sismo Soluciones parts, you must follow the structure of the circuit exactly. Each input, output, display and potentiometer must be connected to the correct pins of the SC-MB. Otherwise, the script will not work.

6.1 Module Names Table

In the Baseplate, there is a code name written in white for each of the modules. The names for these modules which appear on our website is as follows:

Code	Module
ACP	Audio Control Panel (ACP) Module
IRS (DISP – KEY – DSPL)	(Display Module) – (Keyboard Module) – (Module Dual) IRS Display Unit (ISDU) Module
IRS	IRS Mode Selector Module
REC	Flight Recorder Module
WARNING	Stall Warning Test Panel for 737NG
ENG	Engine Panel Module
OXY	Oxygen Panel Module Customized
ELT	ELT Panel Module
LE_DEV	LE Devices Annunciator Module
BROADBAND	Broadband System Panel Module only 737MAX
DOME	Dome Light Switch Panel Module
ELEV	Dome & Elevator Jam Landing Assist Panel Module (Bottom Panel) only 737MAX

6.2 Important information about the AFT Baseplate

Both sides of the Baseplate are used. On the side of the SC-MB, you will see the Motherboard, the integrated servos board and most of the connections. On the other side a SC-DIO can be installed.

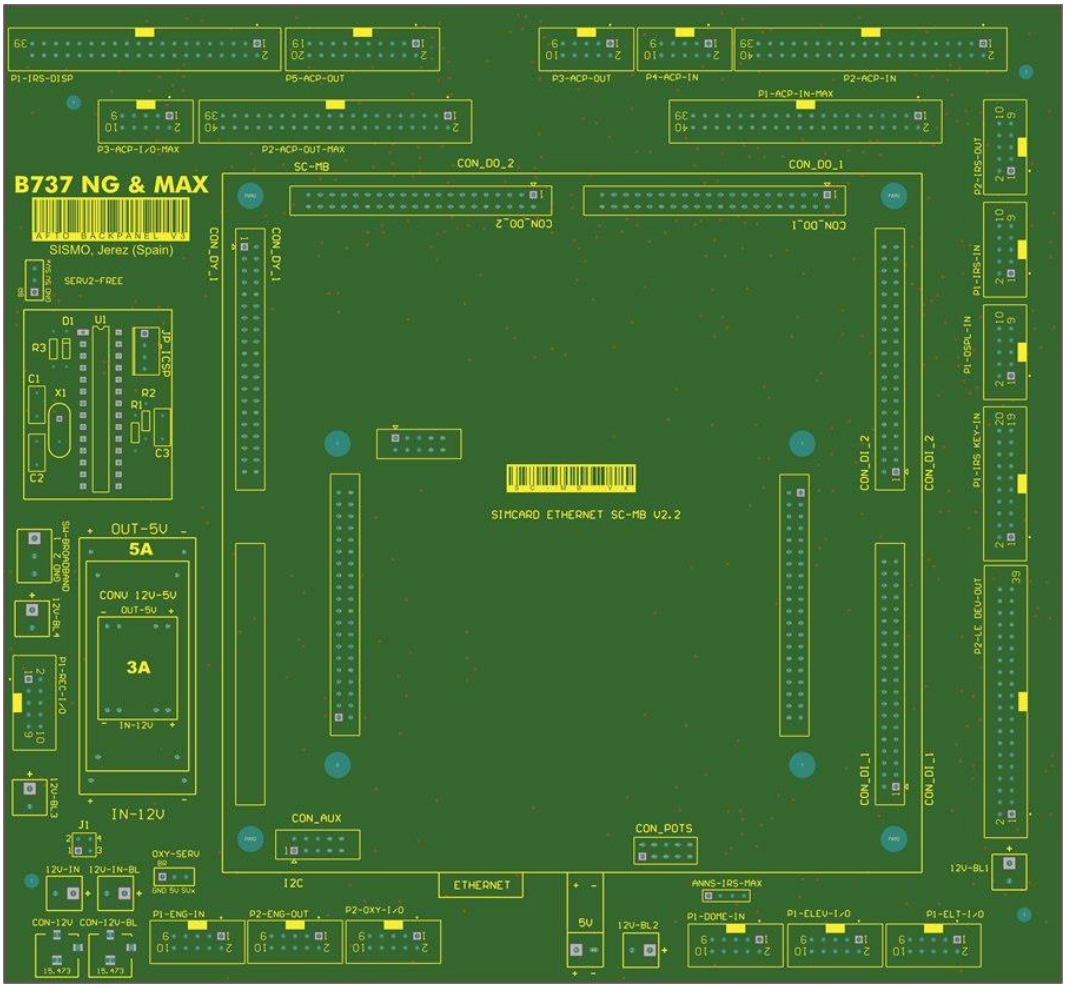
6.3 Abbreviations

Code	Description
IN	Inputs
OUT	Outputs
DISP	Displays

DIO	SimCard Digital Inputs and Outputs Daughter Board
BL	Backlight
SLD	Solenoid
DIM	Dimming
SERV	Servo Mechanism for Gauges
POT	Potentiometers
CTRL	To control the daughterboards through a 10 pin IDC Connector
//	OR
&	And
ANN	Annunciator
PB	Pushbutton
SW	Switch

6.4 SimCard Motherboard side of the baseplate

6.4.1 PCB



6.4.2 SimCard connectors

SimCard	Connector on Baseplate	Pins	Use
SIMCARD ETHERNET SC-MB	CON_DI_1	40	IN
	CON_DI_2	40	IN
	CON_DO_1	40	OUT
	CON_DO_2	40	OUT
	CON_DY_1	40	DISP
	CON_DY_2	40	Not Used
	CON_AUX	10	CTRL
SIMCARD 14 SERVOS	-	-	SERV

*: The SimCard Servos is already integrated

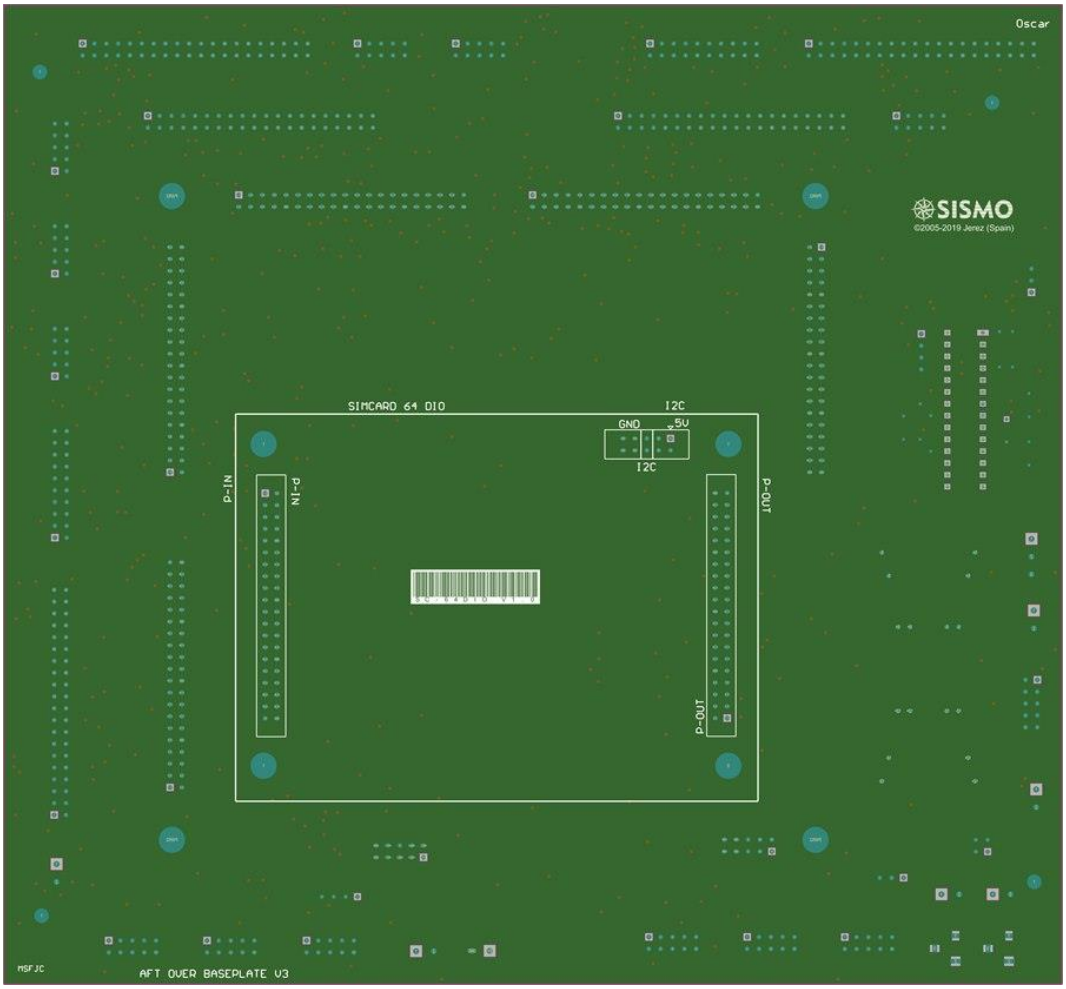
6.4.3 Connections Table

Module	Connector on Baseplate	Pins	Use	Connector on Module
NG ACP	P2-ACP-IN	40	IN	P2-IN
	P4-ACP-IN	10	IN	P4-IN
	P3-ACP-OUT	10	OUT	P3-OUT
	P5-ACP-OUT	20	OUT	P5-OUT
MAX ACP	P1-ACP-IN-MAX	40	IN	P1-IN
	P2-ACP-OUT-MAX	40	OUT	P2-OUT
	P3-ACP-I/O-MAX	10	IN/OUT	P3-I/O
IRS DISP–KEY–DSPL	P1-IRS-DISP	40	DISP	P1-DISP
	P1-IRS KEY-IN	20	IN	P1-IN
	P1-DSPL-IN	10	IN	P1-IN
IRS	P1-IRS-IN	10	IN	P1-IN
	P2-IRS-OUT	10	OUT	P2-OUT
	P1-ELT-I/O *	10	IN/OUT	ANN GPS
LE_DEV	P2-LE DEV-OUT	40	OUT	P2-OUT
	P1-ELT-I/O *	10	IN/OUT	T1
ENG	P1-ENG-IN	10	IN	P1-IN
	P2-ENG-OUT	10	OUT	P2-OUT
ELT	P1-ELT-I/O	10	IN/OUT	P1-INOUT
ELEV	P1-ELEV-I/O	10	IN/OUT	P1-I/O
DOME	P1-DOME-IN	10	IN	P1-IN
REC	P1-REC-I/O	10	IN/OUT	P1-I/O
OXY	P2-OXY-I/O	10	IN/OUT	P2-OUT
	OXY-SERV	3	SERV	-
LG ANN	P2-OXY-I/O *	10	OUT	P1-OUT
ANN PSEU	P1-ELT-I/O *	2	OUT	P1-OUT
MAX IRS	ANNS-IRS-MAX	3	ANN	P1-OUT
WARNING	P1-REC-I/O *	10	IN	P1-OUT

BROADBAND	SW-BROADBAND	3	IN	-
BL	12V-BL1	2	BL	-
	12V-BL2	2	BL	-
	12V-BL3	2	BL	-
	12V-BL4	2	BL	-
OTHER	SERV2-FREE	3	Not Used	-
POWER	12V-IN	2	12V	-
	12V-IN-BL	2	BL	-

*: Some I/O are connected through the connector of a different module. See datasheet of the module.

6.5 Rear Side of Baseplate



This is where the SimCard DIO would go.

SimCard	Connector on Baseplate	Pins	Use
SIMCARD 64 DIO	P-IN	40	IN
	P-OUT	40	IN
	I2C	10	CTRL

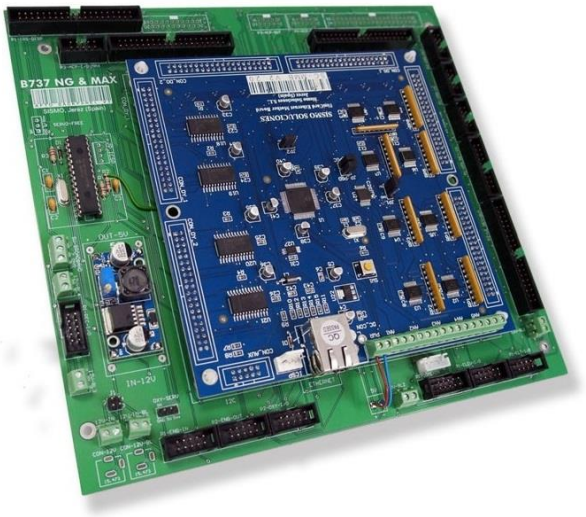
7 Related Documentation

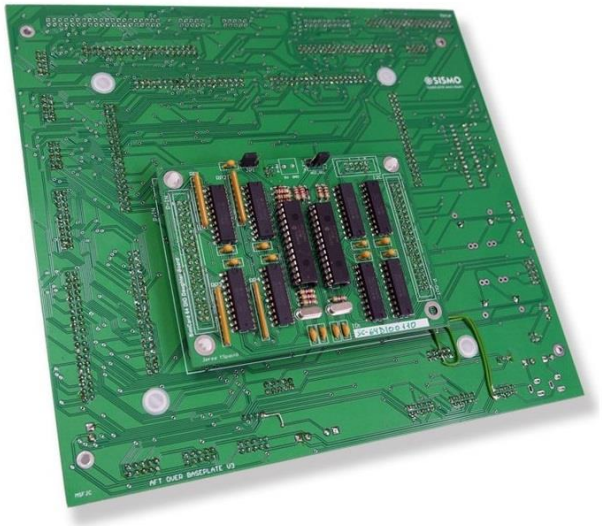
ID	DOCUMENT	Revision
01	User Manual – SimCards Ethernet	See the latest on our website
02	User Manual – Hookup and Wiring Guideline	See the latest on our website
03	User Manual – AFT Overhead Ethernet	See the latest on our website
04	Consult all of the datasheets for the AFT	See the latest on our website

8 Pictures

737NG

737MAX





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