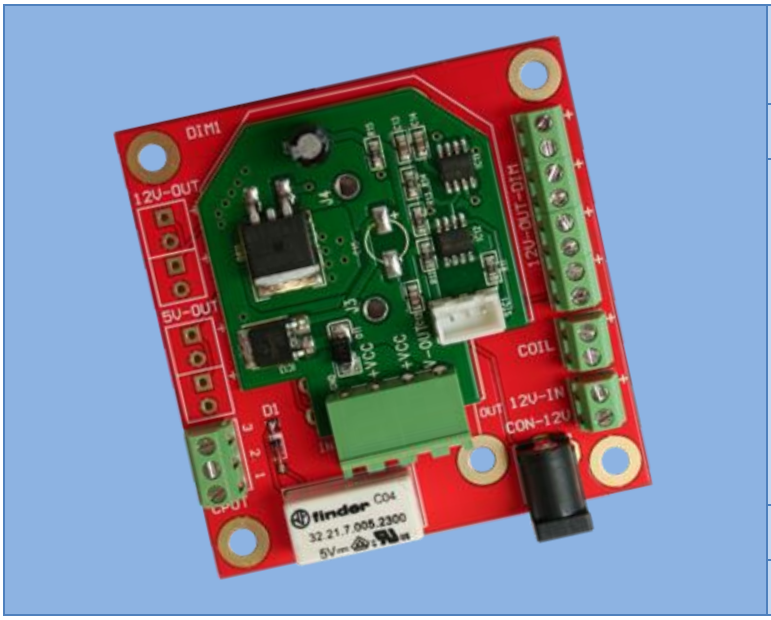
Dimming Circuit V4 S737-PED-M-AL-A32-1521

Datasheet - Dimming Circuit V4 - Rev1.1



Module Dimensions: (WxHxD) mm3	TBD
Backpanel:	Yes, Specific PCB
Hardware Interface: (See Chapter 1.2)	To be connected to a Control Board like SimCard Ethernet, IOCard USB, etc.
Simulator Model:	Sim737NG
Price (without VAT)	*Web: Shop*

1 Compatibility

1.1 Software Compatibility

This module uses connectors to interface with electronic I/O Boards, they 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

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	V4				
No	No	No	Yes				

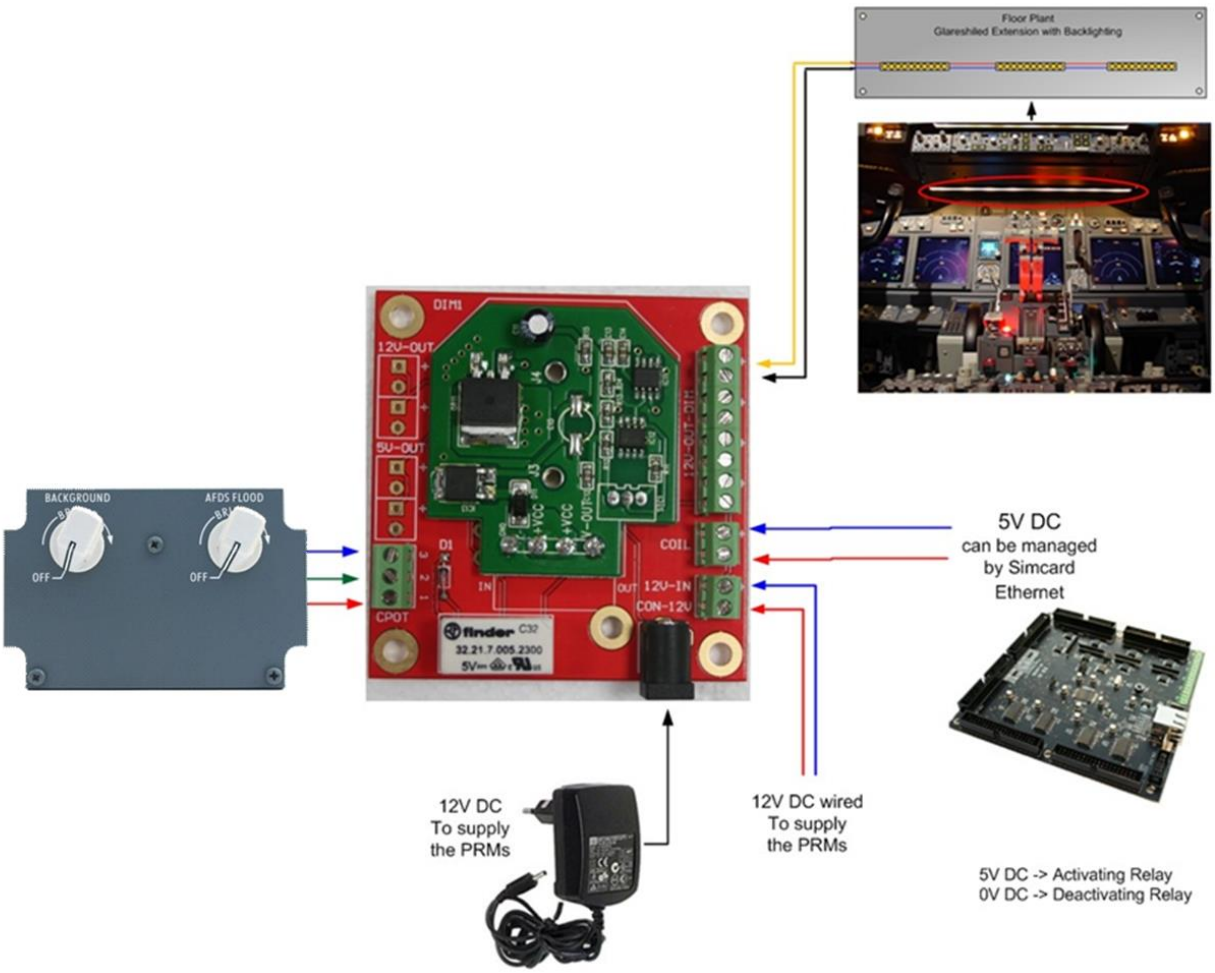
2 Customization

This module cannot be customized.

3 Wiring Layout

DIMMING CIRCUIT		
PRINT	**REMARKS**	**FUNCTION**
Circuit Part 1: Distribution of DC		
CON-12V	Used to supply 12VDC to the Dimming circuit	Connector to supply 12VDC externally.*
12V-IN	Used to supply 12VDC to the Dimming circuit	Connector to supply 12VDC externally.*
12V-OUT-DIM	12V DC Output.	12V DC dimmed output.
12V-OUT	No use	
5V-OUT	No use	
*NOTE: the user can choose between using 12V-IN or CON-12V (they have the same functions).		
Circuit Part 2: Activation of the Relay		
COIL	Connector used to supply 5V DC in order to activate the relay. 0V DC deactivates the relay.	Relay is used to allow 12VDC on the 12V-OUT-DIM.
Circuit Part 3: Dimming		
CPOT	Connector for a potentiometer	These potentiometer will dim the brightness of the 12VDC leds connected to the connectors 12V-OUT-DIM

4 Example 1: using SimCard Ethernet with PRM BALC



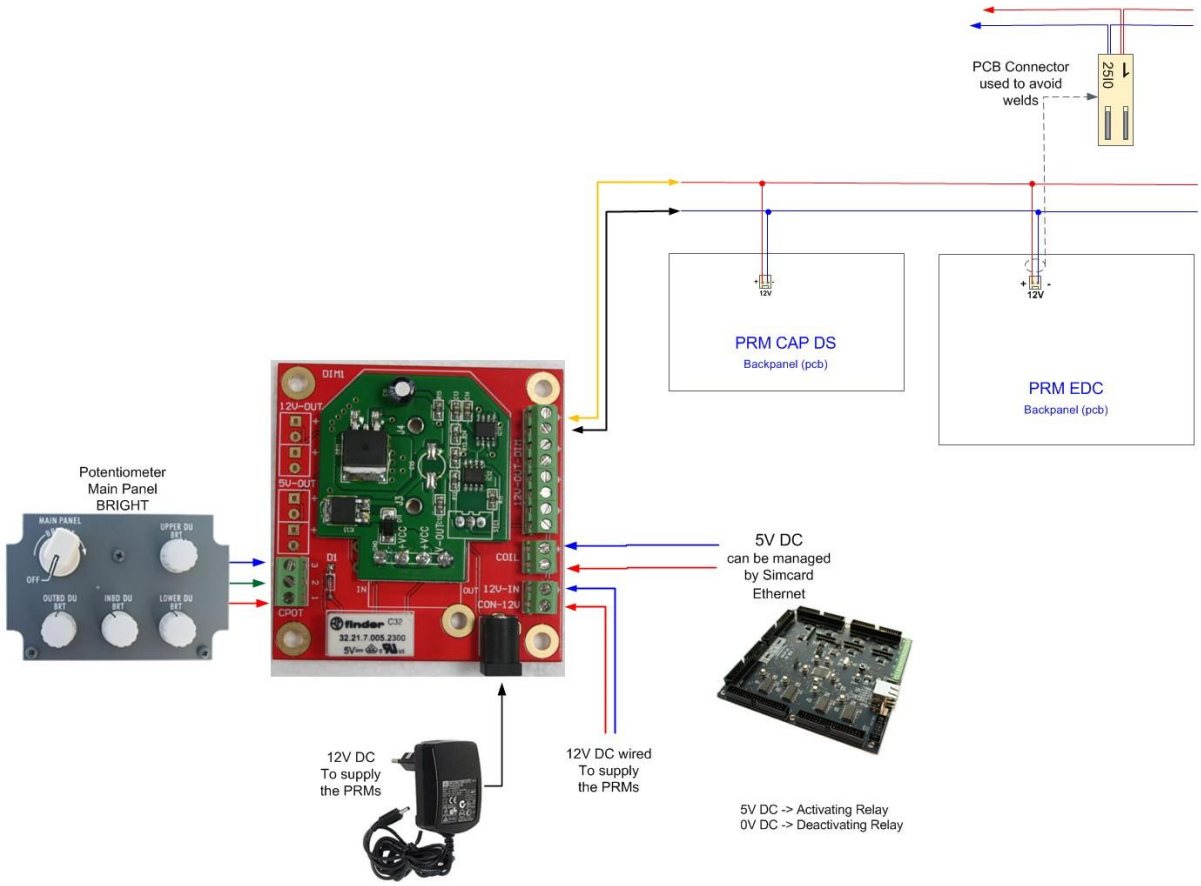
*NOTE 1: The user can choose from 12V-IN or CON-12V Black Connector (they have the same functions).

*NOTE 2: The user can choose any output from 12V-OUT-DIM (they have the same functions)

Explanation:

- If the SimCard Ethernet output is to ON (via Sismo Soluciones MIP script -SCPascal) -> it sends 5V DC to SOIL activating the relay. (Also 5V DC can be supplied directly without using a SimCard)
- Once the relay is to ON -> the 12V DC goes from power supply to the Glareshield Extension Backlighting, switching ON the backlighting
- The potentiometer is used to change the brightness on the Glareshield Extension Backlighting

5 Example 2: using SimCard Ethernet with PRM CBC



*NOTE 1: The user can choose from 12V-IN or CON-12V Black Connector (they have the same functions).

*NOTE 2: The user can choose any output from 12V-OUT-DIM (they have the same functions)

Explanation:

- If the SimCard Ethernet output is to ON (via Sismo Soluciones MIP script -SCPascal) -> it sends 5V DC to COIL activating the relay. (Also 5V DC can be supplied directly without using a SimCard)
- Once the relay is to ON -> the 12V DC goes from power supply to the MIP Modules Backlighting, switching ON the backlighting of the modules.
- The potentiometer is used to change the brightness on the Backlighting of the MIP Panels.

6 Related Documentation

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

End of Document