

DZMx Civilian Interconnect Drawings

Sheet 6 - General Purpose Inputs

2

Lighting input:

If there is a requirement to dim the DZM display backlight along with other cockpit lighting, a reference voltage may be fed into this input. Typically with a 0-28VDC range. The DZM lighting input can be calibrated to suit the particular input requirements of the installation.

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Inputs:

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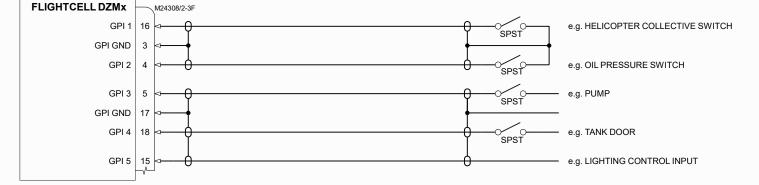
The input's are all configurable as either variable or switched with adjustable thresholds.

The inputs nominal operating range is 0-28VDC, but they will tolerate an input range of -32 to +32VDC.

If these inputs are used, they need to be enabled on the DZM.

The inputs can be used for other purposes depending on the firmware configuration; contact Flightcell for advice on any specific applications.

All inputs are referenced to a common ground which is connected internally to the DZMx to Chassis ground. Therefore the aicraft chassis ground can be used for the input return signal if required.



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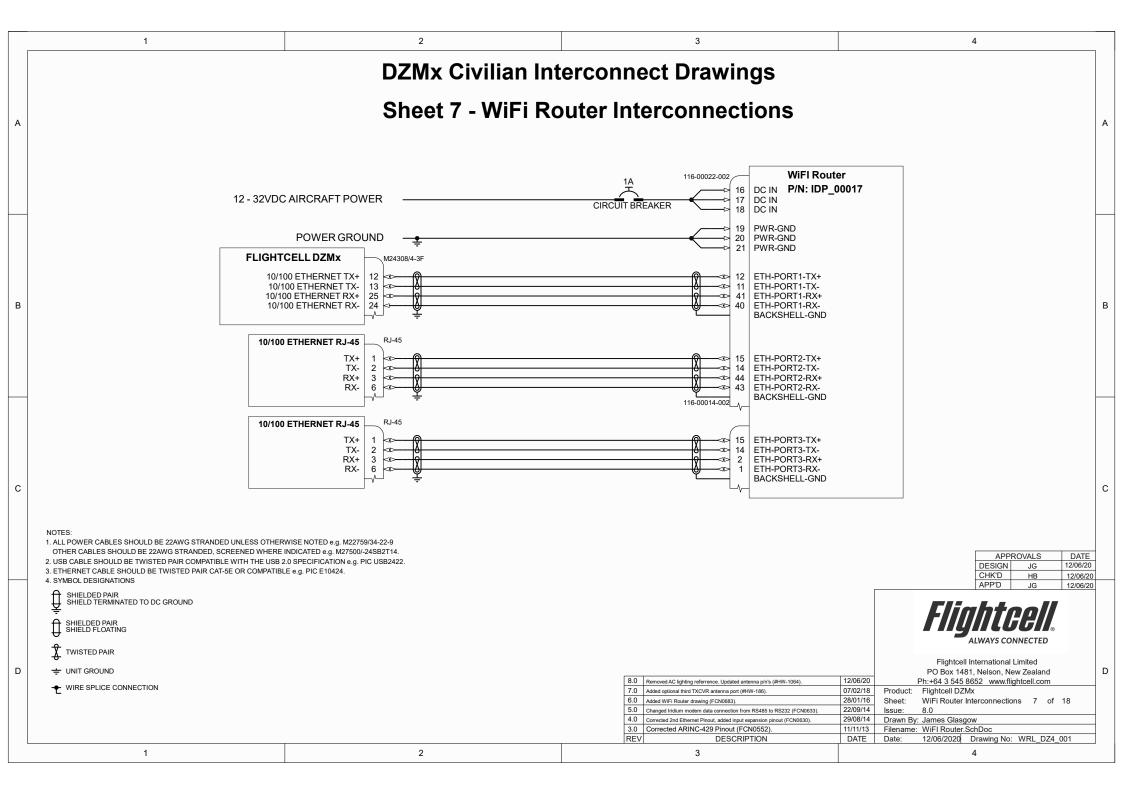
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						APPROVALS	DATE	
	NOTEO					DESIGN JG	12/06/20	
	NOTES:	MUSE NOTED M22750/24 22 0				CHK'D HB	12/06/20	
	1. ALL POWER CABLES SHOULD BE 22AWG STRANDED UNLESS OTHER				-	APP'D JG	12/06/20	
	OTHER CABLES SHOULD BE 22AWG STRANDED, SCREENED WHERE 2. SYMBOL DESIGNATIONS	INDICATED e.g. M27500/-245B2T14.						
	O SHIELDED SINGLE CONDUCTOR					Flightooll		
	SHIELD TERMINATED TO DESIGNATED PIN							
						Flightcell		
	T WIRE SPLICE CONNECTION					ALWAYS CONNECTED		
						Flightcell International Limited		
)						PO Box 1481, Nelson, New Zealand		D
			8.0	Removed AC lighting referrence. Updated antenna p/n's (#HW-1064).	12/06/20	Ph:+64 3 545 8652 www.flightcell.com		
			7.0	Added optional third TXCVR antenna port (#HW-186).	07/02/18	Product: Flightcell DZMx		
				Added WiFi Router drawing (FCN0683).	28/01/16	Sheet: General Purpose Inputs 6 of	18	
				Changed Iridium modern data connection from RS485 to RS232 (FCN0633).	22/09/14	Issue: 8.0		
				Corrected 2nd Ethernet Pinout, added input expansion pinout (FCN0630).	29/08/14	Drawn By: James Glasgow		
			3.0 RE	Corrected ARINC-429 Pinout (FCN0552).	11/11/13	Filename: Auxiliary Inputs.SchDoc	004	
l			RE	DESCRIPTION	DATE	Date: 12/06/2020 Drawing No: WRL_DZ4_	001	J
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DZMx Civilian Interconnect Drawings

Sheet 8 - Antennas

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NOTES:

The Iridium/GPS antenna should be placed horizontally on the upper surface of the airframe such that it has an unobstructed view of the sky. The cell antenna should be placed on the underside of the aircraft; orientation is less critical.

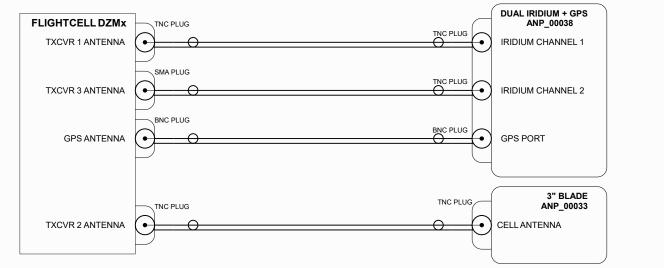
Selection of coax cable depends on the lengths of the cable runs. See the Installation and Configuration manual for cable recomendations.

Where practicable the antenna should be placed well clear (at least 500mm and preferably 1000mm) from any other antenna operating at similar frequencies.

The setup shown is an installation with two Iridium transceivers and one Cellular tranceiver.

The third transceiver is optional, standard DZMx's only have two transceivers.

For standard installations with one Iridium tranceiver and one cellular transceiver, a standard Iridium + GPS antenna is available (p/n ANP_00043).



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	DESIGN	JG	12/06/20
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 ALL POWER CABLES SHOULD BE 22AWG STRANDED UNLESS OTHERWISE NOTED e.g. M22759/34-22-9 OTHER CABLES SHOULD BE 22AWG STRANDED, SCREENED WHERE INDICATED e.g. M27500/-24SB2T14, 2. SYMBOL DESIGNATIONS

			ALWAYS CONNECTED		
					Flightcell International Limited PO Box 1481, Nelson, New Zealand D
		8.0	Removed AC lighting referrence. Updated antenna p/n's (#HW-1064).	12/06/20	Ph:+64 3 545 8652 www.flightcell.com
			Added optional third TXCVR antenna port (#HW-186).	07/02/18	Product: Flightcell DZMx
		6.0	Added WiFi Router drawing (FCN0683).	28/01/16	Sheet: Antennas 8 of 18
		5.0	Changed Iridium modem data connection from RS485 to RS232 (FCN0633).	22/09/14	Issue: 8.0
		4.0	Corrected 2nd Ethernet Pinout, added input expansion pinout (FCN0630).	29/08/14	Drawn By: James Glasgow
		3.0	Corrected ARINC-429 Pinout (FCN0552).	11/11/13	Filename: Antenna.SchDoc
		REV	DESCRIPTION	DATE	Date: 12/06/2020 Drawing No: WRL_DZ4_001
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