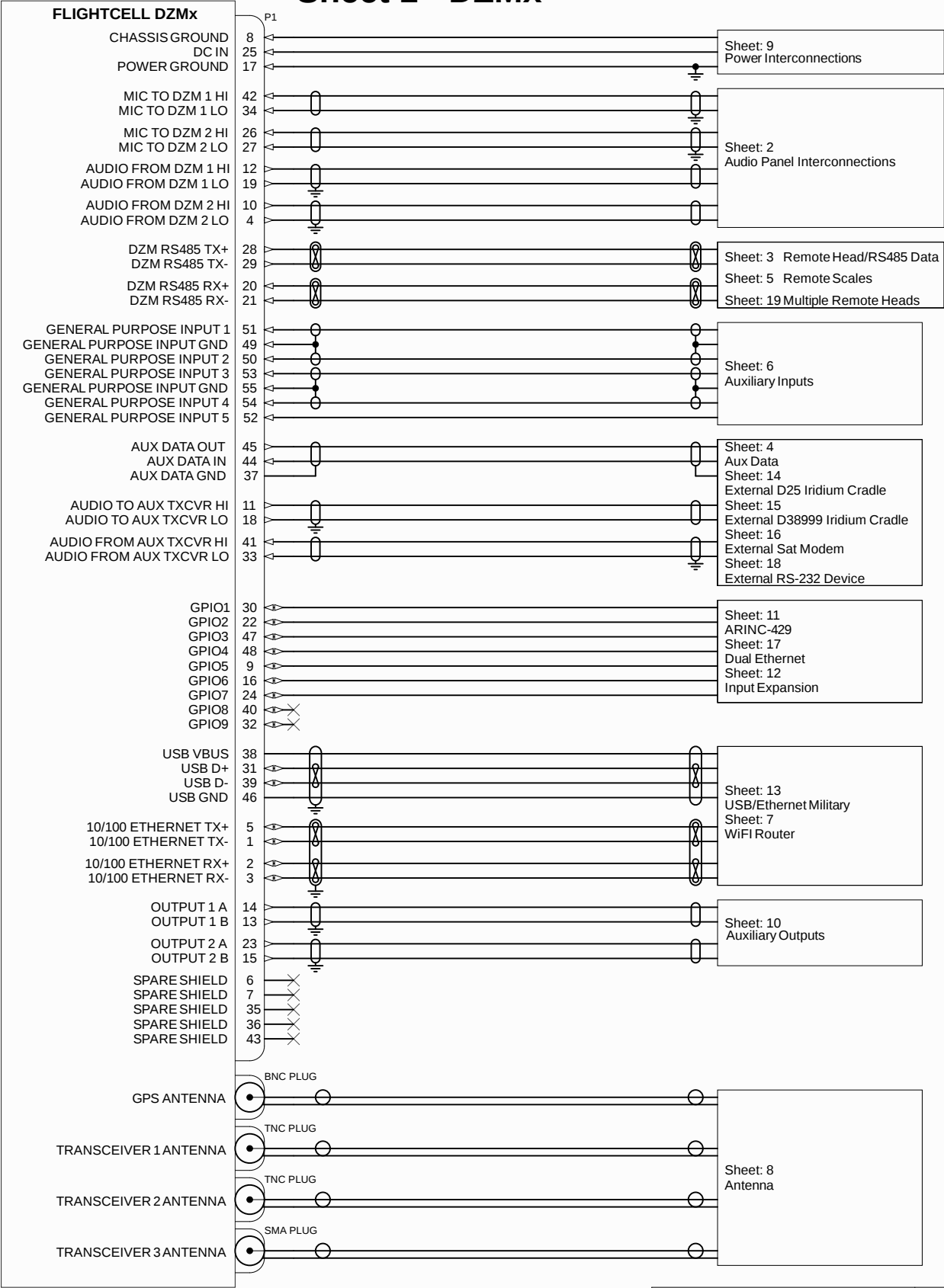
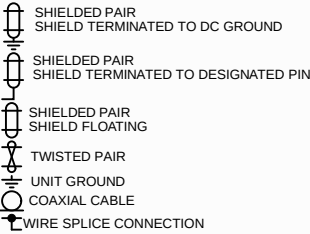


DZMx Military Interconnect Drawings
Sheet 1 - DZMx



NOTES:
1. 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. UNIT GROUND IS INTERNALLY CONNECTED TO UNIT CHASSIS
3. SYMBOL DESIGNATIONS

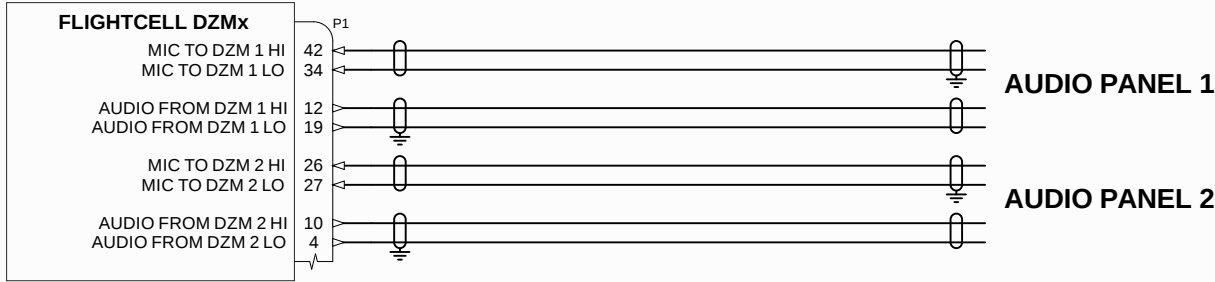


9.0	HW:2397	07/09/23
8.0	Removed AC lighting reference. Updated antenna pin's (#HW-1064).	21/05/20
7.0	Added optional third TXCVR antenna port (#HW-186).	07/02/18
6.0	Added WiFi Router drawing (FCN0683).	28/01/16
5.0	Changed Iridium modem data connection from RS485 to RS232 (FCN0633).	22/09/14
4.0	Corrected 2nd Ethernet Pinout, added input expansion pinout (FCN0630).	29/08/14
DATE	DESCRIPTION	DATE

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booyse	7/09/2023
Flightcell ALWAYS CONNECTED		
Flightcell International Limited PO Box 1481, Nelson, New Zealand Ph: +64 3 545 8652 www.flightcell.com		
Product:	Flightcell DZMx	1 of 19
Sheet:	Interconnect Drawings	
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	Top Level.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 2 - Audio Panel Interconnections



Notes on connection to Aircraft Audio System:

The preferred method of connection is where the Aircraft Audio System provides a Cellphone port or similar. In this case the audio input should be configured as unbiased.

Alternatively, connection may be made to an unused radio port. For systems it may be necessary to use the biased voltage on the DZM input (if the system expects mic bias from the radio); otherwise the input should be configured as unbiased.

The DZM may otherwise be connected to a headset port - in this case the input bias voltage should be enabled.

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booysse	7/09/2023

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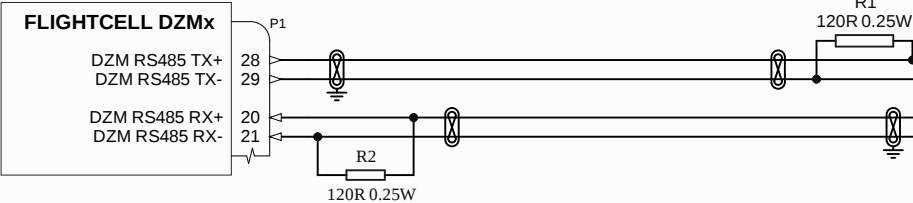
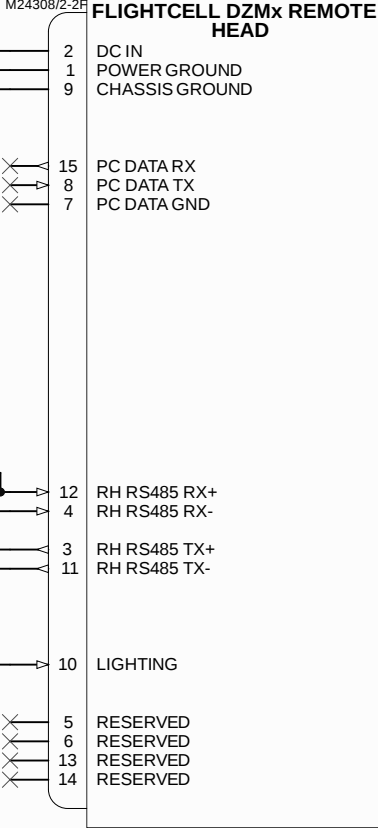
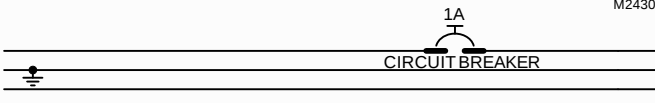
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Product:	Flightcell DZMx	
Sheet:	ICS Interconnections	2 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	ICS Interconnections.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

- NOTES:
1. 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. IT IS RECOMMENDED THAT THE POWER GROUND CONNECTIONS BE RUN SEPARATELY TO A SINGLE EARTHING POINT, SO AS TO MINIMISE GROUND LOOPS
 3. SYMBOL DESIGNATIONS

- SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND
- SHIELDED PAIR
SHIELD FLOATING
- TWISTED PAIR
- UNIT GROUND
- WIRE SPLICE CONNECTION

12 - 32VDC AIRCRAFT POWER
POWER GROUND
CHASSIS GROUND (OPTIONAL)



LIGHTING CONTROL INPUT (0 - 28VDC)

TERMINATION RESISTOR NOTES:

A termination resistors (120ohm) should be placed across the receive pair at the end of the main RS485 cable run. Normally this would be as shown in this diagram - across remote head 1 pins 4 & 12.

Any additional remote heads connected as stub connections to the main RS485 run do not need additional termination resistors.

If your DZMx has a serial number of F14000030 or later, there is no need to fit the termination resistor at the DZMx end as this is internal to the DZMx.

If your DZMx has a serial number earlier than F14000030, you will need to place a 120ohm termination resistor across the receive pair (pins 7 & 20) at the DZMx end of the main cable run.

The first three digits of the DZMx serial number correspond to the month and year of construction - so F14 corresponds to June 2014 etc.

DZMx Military Interconnect Drawings

Sheet 3: Remote Head/RS485 Interconnections

NOTE:

The Remote Head requires only the connections shown in this drawing.

The secondary lighting input need be fitted only if the display backlight brightness needs to be controlled externally. Otherwise the brightness can be set to a fixed level via the menus.

This drawing shows the DZMx connected to a Flightcell Remote Head. The RS485 can also be used for other applications, contact Flightcell for details.

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booyse	7/09/2023

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Product:	Flightcell DZMx		
Sheet:	Remote Head/RS485 ICD	3	of 19
Revision:	9.0		
Drawn By:	Richard Benfield		
Filename:	Remote Head Interconnections.SchDoc		
Date:	7/09/2023	Drawing No:	114-00004

DZMx Military Interconnect Drawings

Sheet 4 - Aux Data Interconnections



Note: the diagnostic port can be fitted for in-situ maintenance purposes. If fitted it is highly advisable to locate this connector such that it is readily accessible.

It is recommended that when connecting to a PC the loopback connections on RTS, CTS, DCD, DTR and DSR are made as shown.

This port can also be used to connect to an external Transceiver.

- NOTES:
1. 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

-  SHIELDED PAIR
SHIELD TERMINATED TO DESIGNATED PIN
-  SHIELDED PAIR
SHIELD FLOATING
-  WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booyse	7/09/2023

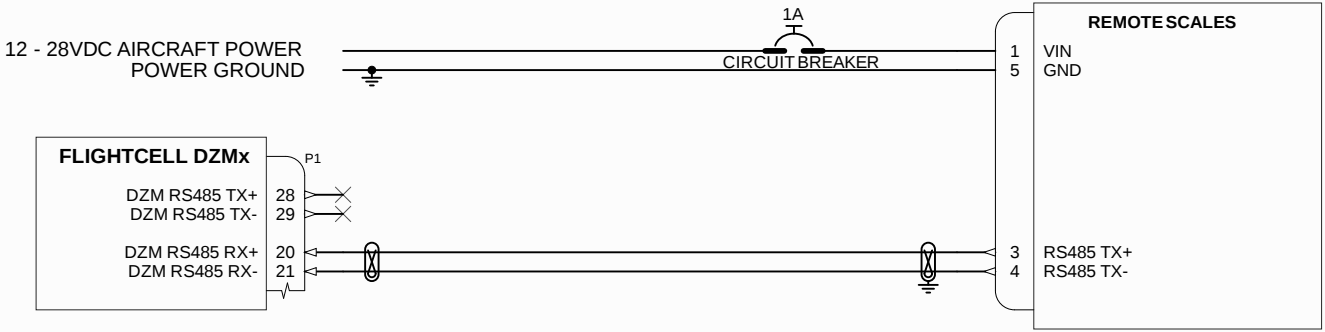
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Product:	Flightcell DZMx		
Sheet:	Aux Data Interconnections	4	of 19
Revision:	9.0		
Drawn By:	Richard Benfield		
Filename:	Aux Data Interconnections.SchDoc		
Date:	7/09/2023	Drawing No:	114-00004

DZMx Military Interconnect Drawings

Sheet 5: Remote Scales Interconnections



- NOTES:
1. 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. IT IS RECOMMENDED THAT THE POWER GROUND CONNECTIONS BE RUN SEPARATELY TO A SINGLE EARTHING POINT, SO AS TO MINIMISE GROUND LOOPS
 3. SYMBOL DESIGNATIONS

- SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND
- SHIELDED PAIR
SHIELD FLOATING
- TWISTED PAIR
- UNIT GROUND
- WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booysse	7/09/2023

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Product:	Flightcell DZMx	
Sheet:	Remote Scales Interconnections5	of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	Remote Scales Interconnections.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 6 - General Purpose Inputs

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.

Inputs:

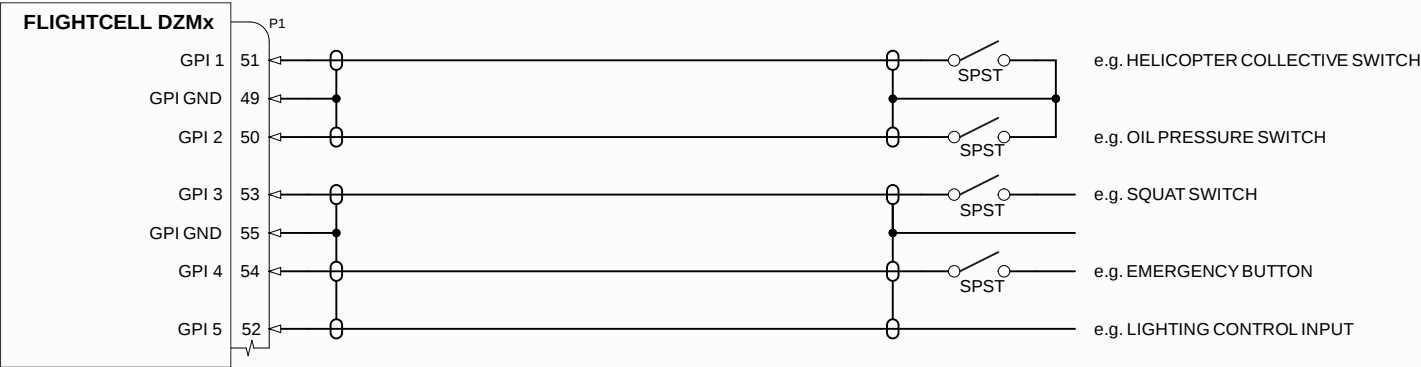
The input's are all configurable as either variable or switched with adjustable thresholds.

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 aircraft chassis ground can be used for the input return signal if required.



- NOTES:
- 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.
 - SYMBOL DESIGNATIONS

-  SHIELDED SINGLE CONDUCTOR
-  SHIELD TERMINATED TO DESIGNATED PIN
-  WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booysse	7/09/2023

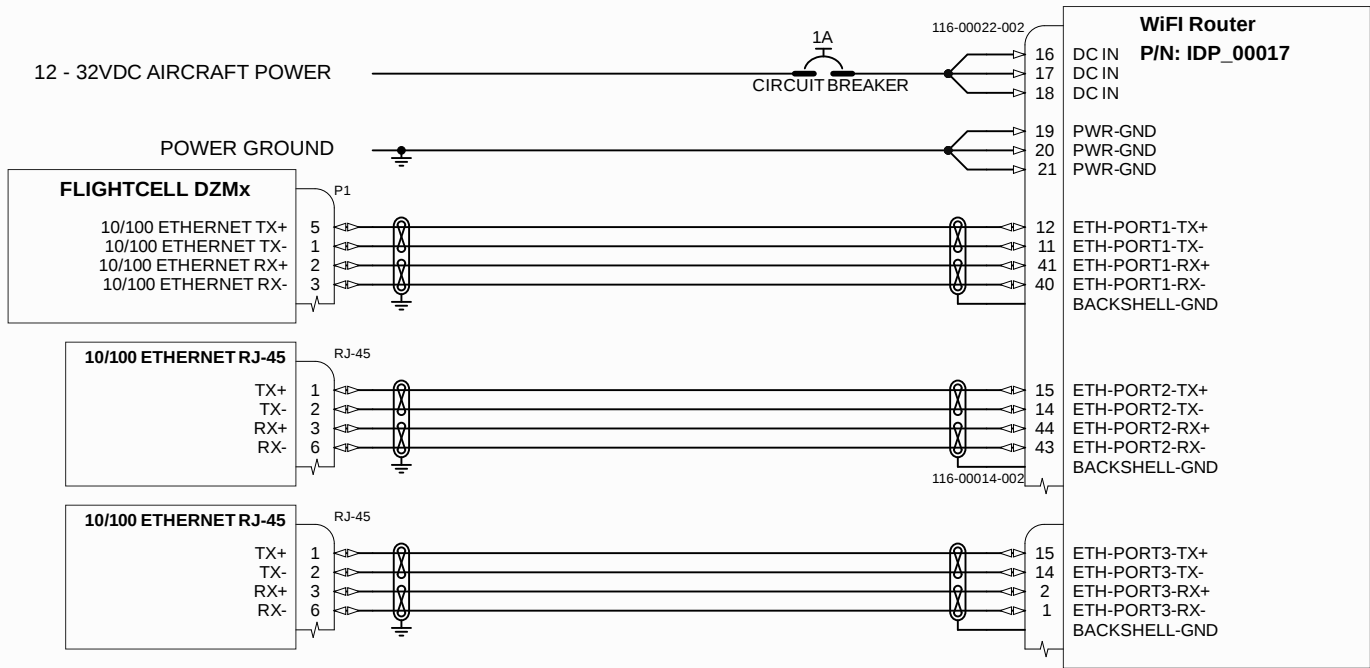
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Product:	Flightcell DZMx	
Sheet:	General Purpose Inputs	6 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	Auxiliary Inputs.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 7 - WiFi Router Interconnections



- NOTES:
1. 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. USB CABLE SHOULD BE TWISTED PAIR COMPATIBLE WITH THE USB 2.0 SPECIFICATION e.g. PIC USB2422.
 3. ETHERNET CABLE SHOULD BE TWISTED PAIR CAT-5E OR COMPATIBLE e.g. PIC E10424.
 4. SYMBOL DESIGNATIONS

- SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND
- SHIELDED PAIR
SHIELD FLOATING
- TWISTED PAIR
- UNIT GROUND
- WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booyse	7/09/2023

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Product:	Flightcell DZMx
Sheet:	WiFi Router Interconnections 7 of 19
Revision:	9.0
Drawn By:	Richard Benfield
Filename:	WiFi Router.SchDoc
Date:	7/09/2023
Drawing No:	114-00004

DZMx Military Interconnect Drawings

Sheet 8 - Antennas

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 recommendations.

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

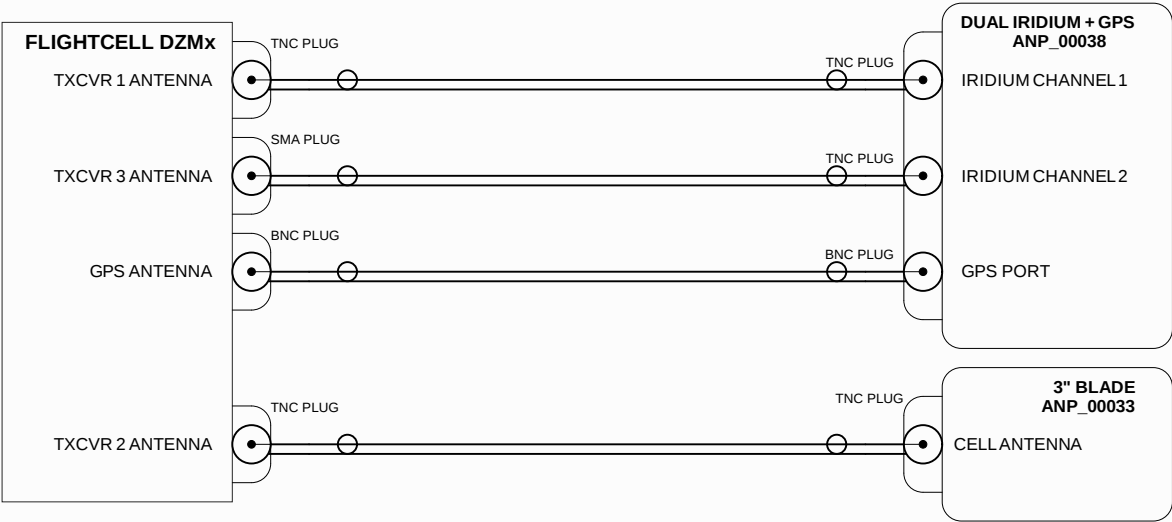
The setup shown is an installation with two Iridium transceivers and one Cellular transceiver.

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

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

ANP_00038 is no longer available from Flightcell, use ANP_00043, ANP_00045 or equivalent.

- NOTES:
1. 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
 COAXIAL CABLE



APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booysse	7/09/2023

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Product:	Flightcell DZMx	
Sheet:	Antennas	8 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	Antenna.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

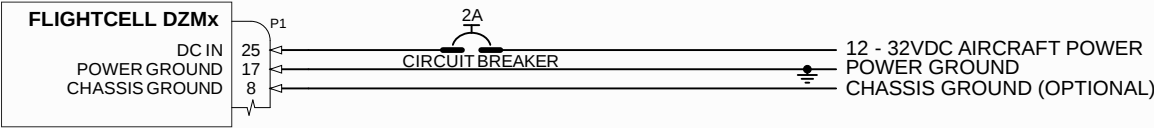
DZMx Military Interconnect Drawings

Sheet 9 - Power Interconnections

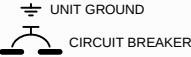
NOTES:

In order to minimise ground loops, it is recommended that the ground connections from the DZM, external satphone or cell modem (if fitted) are run separately to a single grounding point, ideally the same point as used by the ICS.

It is recommended that DC power be taken from the emergency (primary) power bus, particularly if engine stop/start events need to be captured.



- NOTES:
1. 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



APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booysse	7/09/2023

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Product:	Flightcell DZMx	
Sheet:	Power Interconnections	9 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	Power Interconnections.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 10 - Auxiliary Outputs

NOTES:

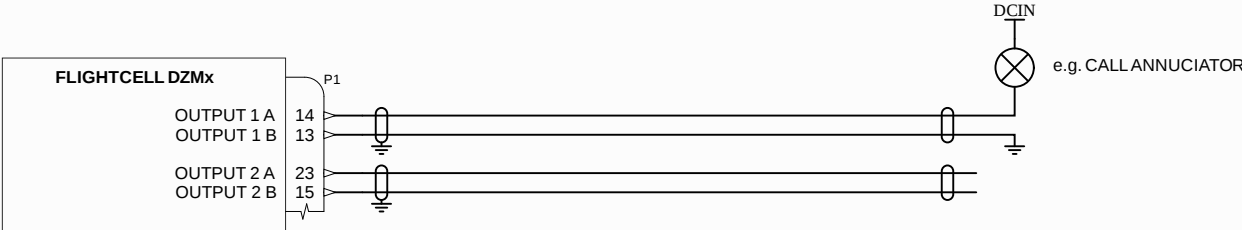
The auxiliary outputs can be used to switch external loads, e.g. annunciator panel indicator.

Each output is capable of switching a 500mA load. The voltage applied to either terminal must not exceed 60VDC.

Each output provides 1500Vrms isolation between the output terminals and the DZM internal circuitry.

When the output is on Terminal A is connected to Terminal B.

The outputs can be configured for a variety of purposes e.g. a call annunciator.



NOTES:

- 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.
- SYMBOL DESIGNATIONS

 SHIELDED PAIR
SHIELD TERMINATED TO DESIGNATED PIN

 UNIT GROUND

 WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booysse	7/09/2023

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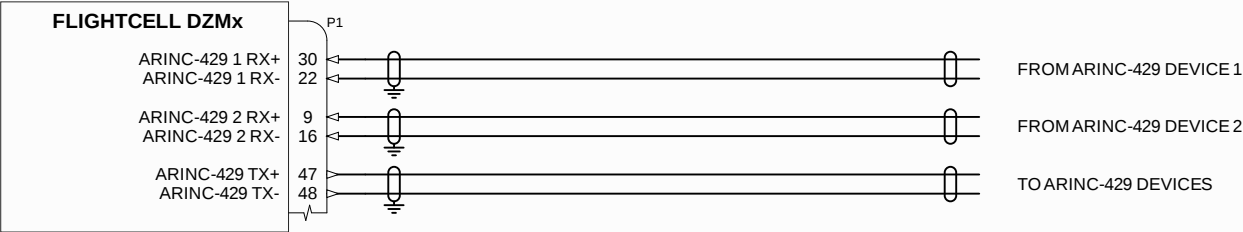
Product:	Flightcell DZMx	
Sheet:	Auxiliary Outputs	10 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	Auxiliary Outputs.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 11 - ARINC-429 Data Interconnections

NOTES:

ARINC-429 functionality is only available if the ARINC-429 card is installed in the DZMx.



NOTES:

1. 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

- SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND
- SHIELDED PAIR
SHIELD FLOATING
- UNIT GROUND
- WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booysse	7/09/2023

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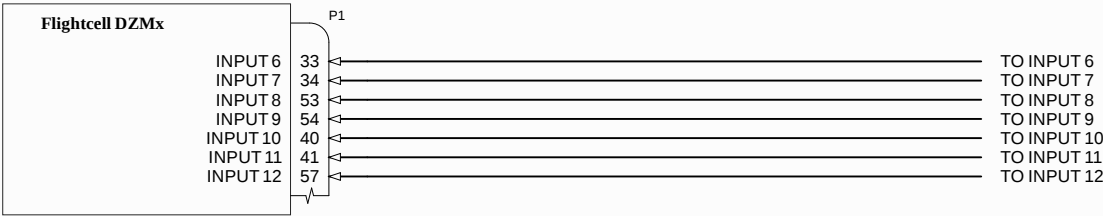
Product:	Flightcell DZMx	
Sheet:	ARINC-429 Interconnections	11 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	ARINC-429 Interconnections.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 12 - Input Expansion Interconnections

NOTES:

Extra inputs are only available if the input expansion card is installed in the DZMx.



NOTES:

- 1. 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

- SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND
- SHIELDED PAIR
SHIELD FLOATING
- UNIT GROUND
- WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booysse	7/09/2023

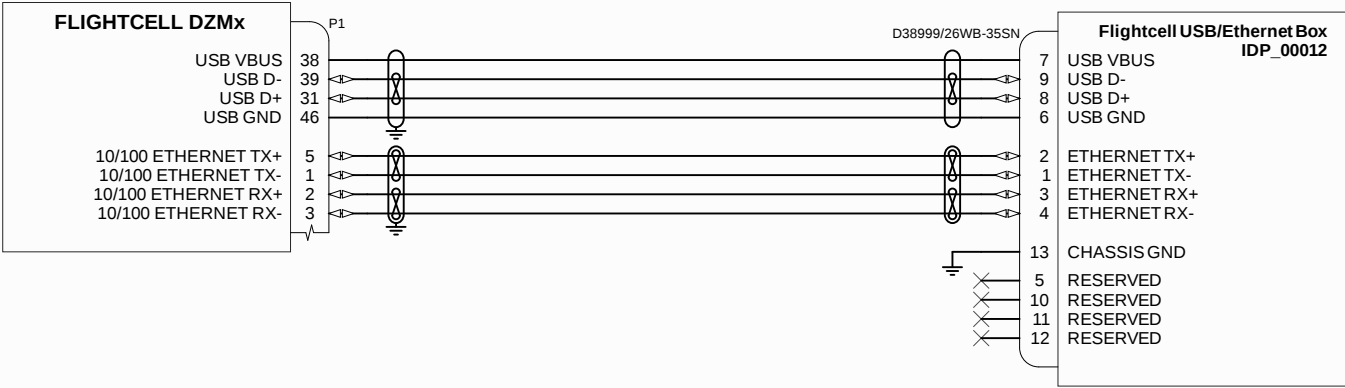
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Product:	Flightcell DZMx		
Sheet:	Input Expansion Connections	12	of 19
Revision:	9.0		
Drawn By:	Richard Benfield		
Filename:	Input Expansion Interconnections.SchDoc		
Date:	7/09/2023	Drawing No:	114-00004

DZMx Military Interconnect Drawings

Sheet 13 - Military USB/Ethernet Connector Box Interconnections



- NOTES:
1. 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. USB CABLE MUST BE COMPATIBLE WITH THE USB 2.0 SPECIFICATION e.g. PIC USB2422.
 3. ETHERNET CABLE SHOULD BE TWISTED PAIR CAT-5E OR COMPATIBLE e.g. PIC E10424.
 4. SYMBOL DESIGNATIONS

- SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND
- SHIELDED PAIR
SHIELD FLOATING
- TWISTED PAIR
- UNIT GROUND
- WIRE SPLICE CONNECTION

- NOTES:
- The DZMx contains a single Ethernet port, if multiple devices are required an external Ethernet switch will be required.
- Contact Flightcell for recommended Etherent switches.
- TX+/- and RX+/- should be run as twisted pairs using CAT-5e or equivalent.
- The USB/Ethernet box must be installed as without it the DZMx cannot have its firmware upgraded.
- USB 2.0 compliant cable must be used and cable run length must be kept to less than 5m.

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booyse	7/09/2023

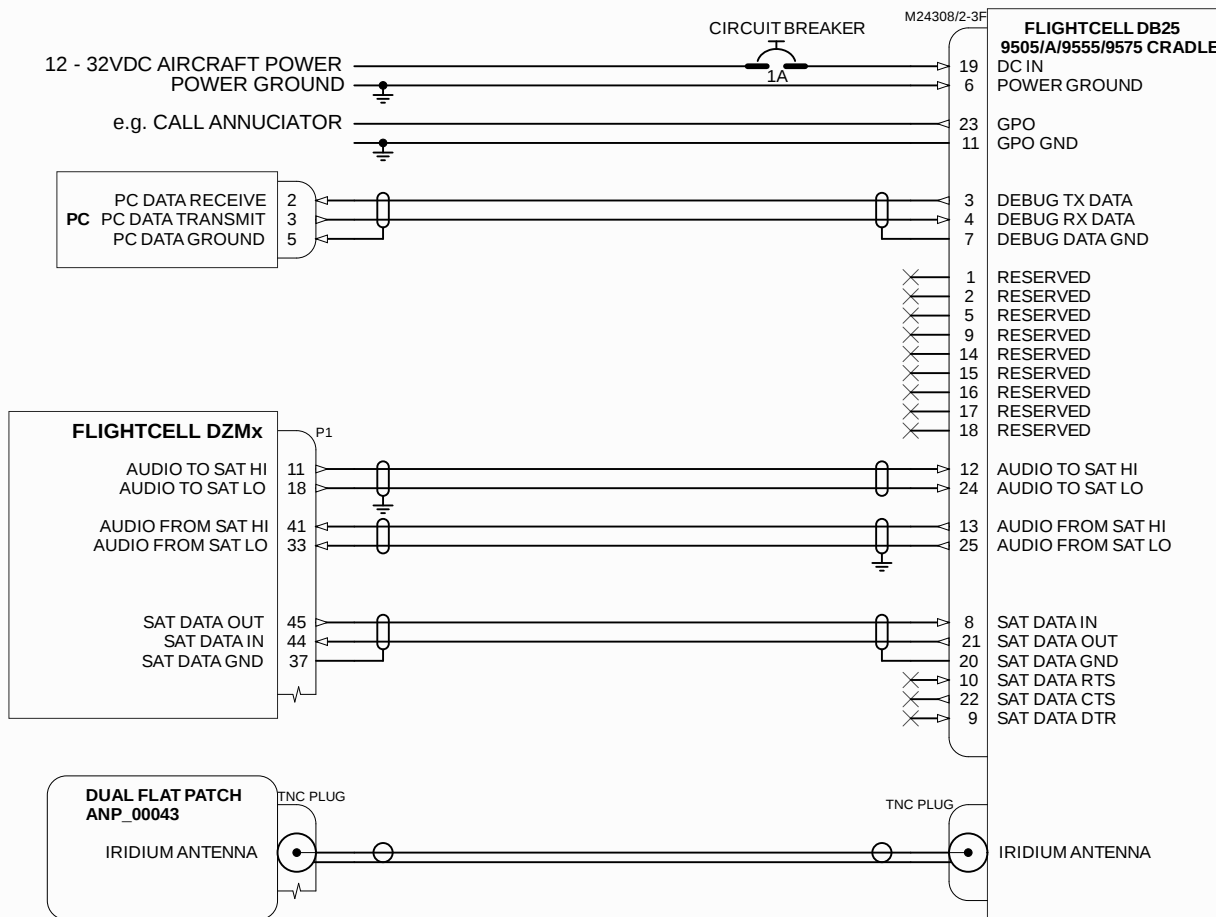
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Product:	Flightcell DZMx	
Sheet:	Ethernet Interconnections	13 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	USB Ethernet Mil.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 14 - Optional External DB25 Iridium Cradle (9505/A/9555/9575)



NOTES:

The cradle GPO can be used to switch external loads, e.g. annunciator panel indicator.

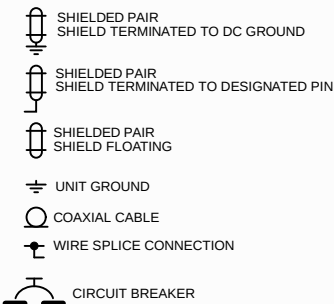
The output is capable of switching a 100mA load. The max applied voltage must not exceed 32VDC.

The output can be configured via the DZM Manager PC software.

The Debug port is not required for normal use, it can be used for firmware upgrades if required.

NOTES:

1. 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. IT IS RECOMMENDED THAT THE POWER GROUND CONNECTIONS BE RUN SEPARATELY TO A SINGLE EARTHING POINT, SO AS TO MINIMISE GROUND LOOPS
3. SYMBOL DESIGNATIONS



APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booyse	7/09/2023

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Product:	Flightcell DZMx	
Sheet:	Ext DB25 Iridium Cradle	14 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	Aux DB25 Iridium Cradle.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

1

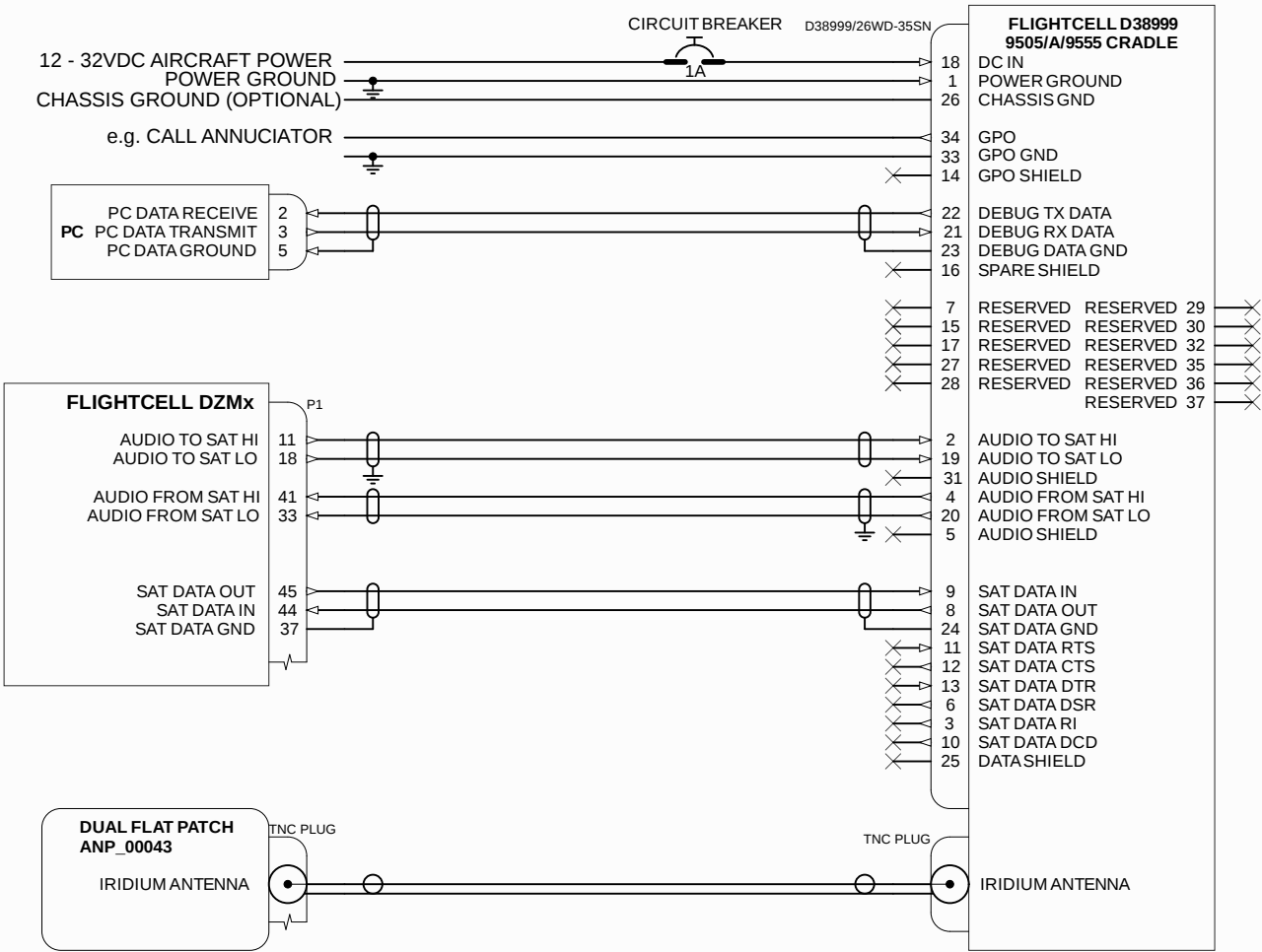
2

3

4

DZMx Military Interconnect Drawings

Sheet 15 - Optional External D38999 Iridium Cradle (9505/A)



NOTES:

The GPO can be used to switch external loads, e.g. annunciator panel indicator.

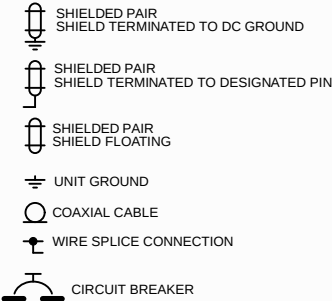
The output is capable of switching a 100mA load. The max applied voltage must not exceed 32VDC.

The output can be configured via the DZM Manager PC software.

The Debug port is not required for normal use, it can be used for firmware upgrades if required.

The additional shield connections may be used to terminate shields rather than using the common power ground point if desired.

- NOTES:
- 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.
 - IT IS RECOMMENDED THAT THE POWER GROUND CONNECTIONS BE RUN SEPARATELY TO A SINGLE EARTHING POINT, SO AS TO MINIMISE GROUND LOOPS
 - SYMBOL DESIGNATIONS



APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booyse	7/09/2023

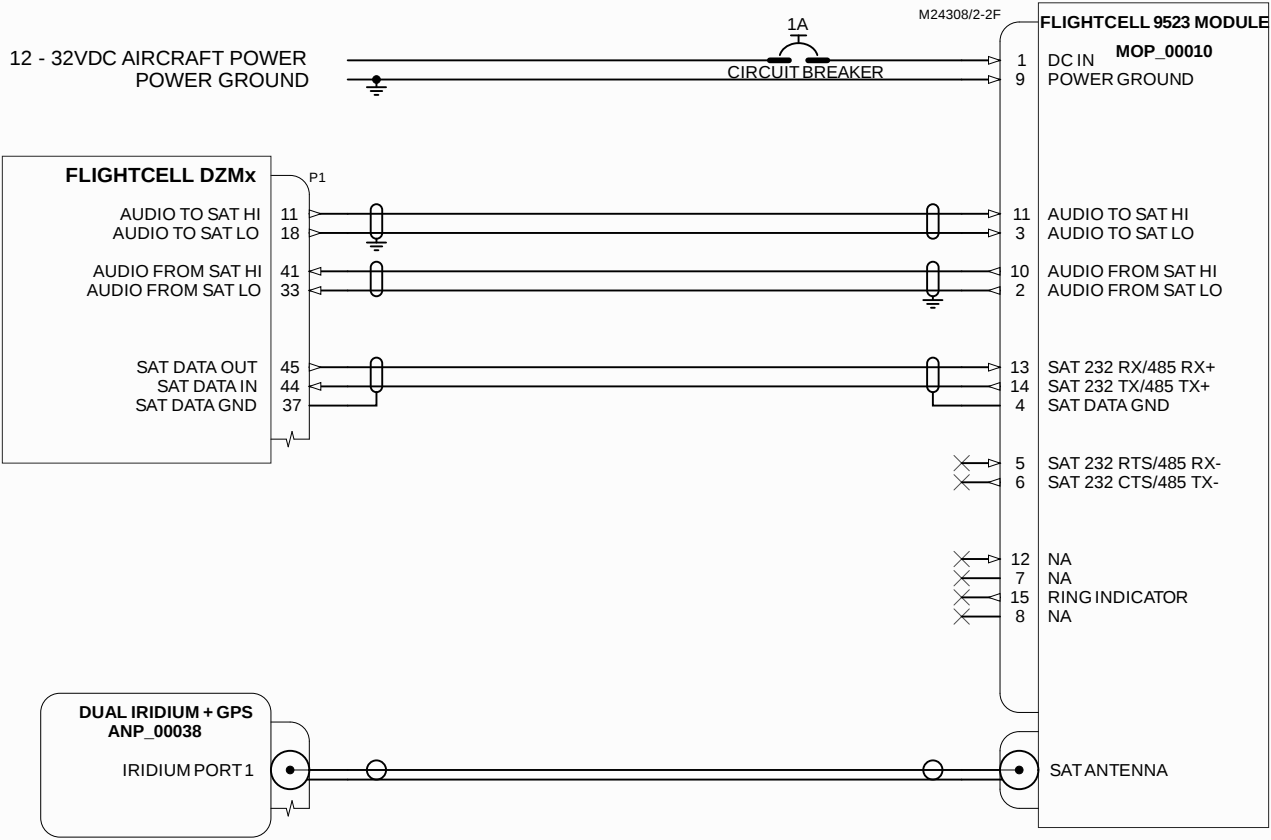
Flightcell
ALWAYS CONNECTED

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P.O. Box 1481, Nelson, New Zealand
Ph: +64 3 545 8652 www.flightcell.com

Product:	Flightcell DZMx	
Sheet:	Ext D38999 Iridium Cradle	15 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	Aux D38999 Iridium Cradle.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 16 - Optional External Iridium Module Interconnections



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 recommendations.

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

The antenna shown is a Dual Iridium + GPS antenna, for use in installations with internal SAT/CELL and the external Sat modem.

Single port Iridium antennas are available, contact Flightcell for details.

ANP_00038 is no longer available from Flightcell, use ANP_00043, ANP_00045 or equivalent.

- NOTES:
1. 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. IT IS RECOMMENDED THAT THE POWER GROUND CONNECTIONS BE RUN SEPARATELY TO A SINGLE EARTHING POINT, SO AS TO MINIMISE GROUND LOOPS
 3. SYMBOL DESIGNATIONS

- SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND
- SHIELDED PAIR
SHIELD FLOATING
- UNIT GROUND
- WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booyse	7/09/2023

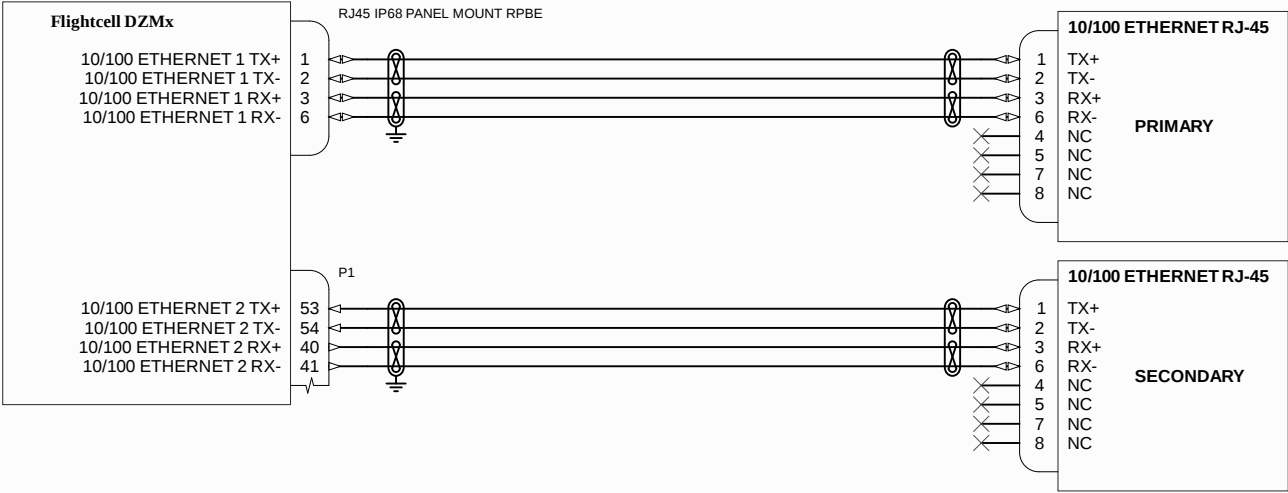
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Product:	Flightcell DZMx	
Sheet:	External Iridium Module	16 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	Aux Sat Modem Interconnections.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 17 - Dual Ethernet Interconnections



NOTES:

The second Ethernet port is only available if the secondary ethernet card is installed in the DZMx.

- NOTES:
1. 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. ETHERNET CABLE SHOULD BE TWISTED PAIR CAT-5E OR COMPATIBLE e.g. PIC E10424.
 3. SYMBOL DESIGNATIONS

- SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND
- SHIELDED PAIR
SHIELD FLOATING
- TWISTED PAIR
- UNIT GROUND
- WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booyse	7/09/2023

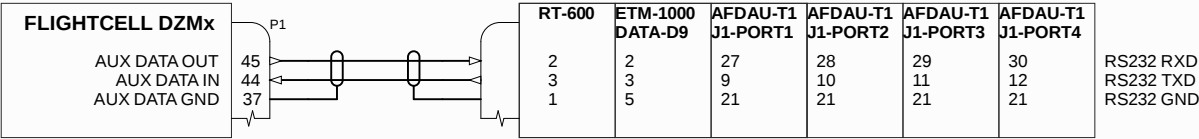
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Product: Flightcell DZMx
Sheet: Dual Ethernet Interconnections 17 of 19
Revision: 9.0
Drawn By: Richard Benfield
Filename: Dual Ethernet.SchDoc
Date: 7/09/2023 Drawing No: 114-00004

DZMx Civilian Interconnect Drawings

Sheet 18 -External RS-232 Device



NOTES:

1. 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

- SHIELDED PAIR
SHIELD TERMINATED TO DESIGNATED PIN
- SHIELDED PAIR
SHIELD FLOATING
- WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booysse	7/09/2023

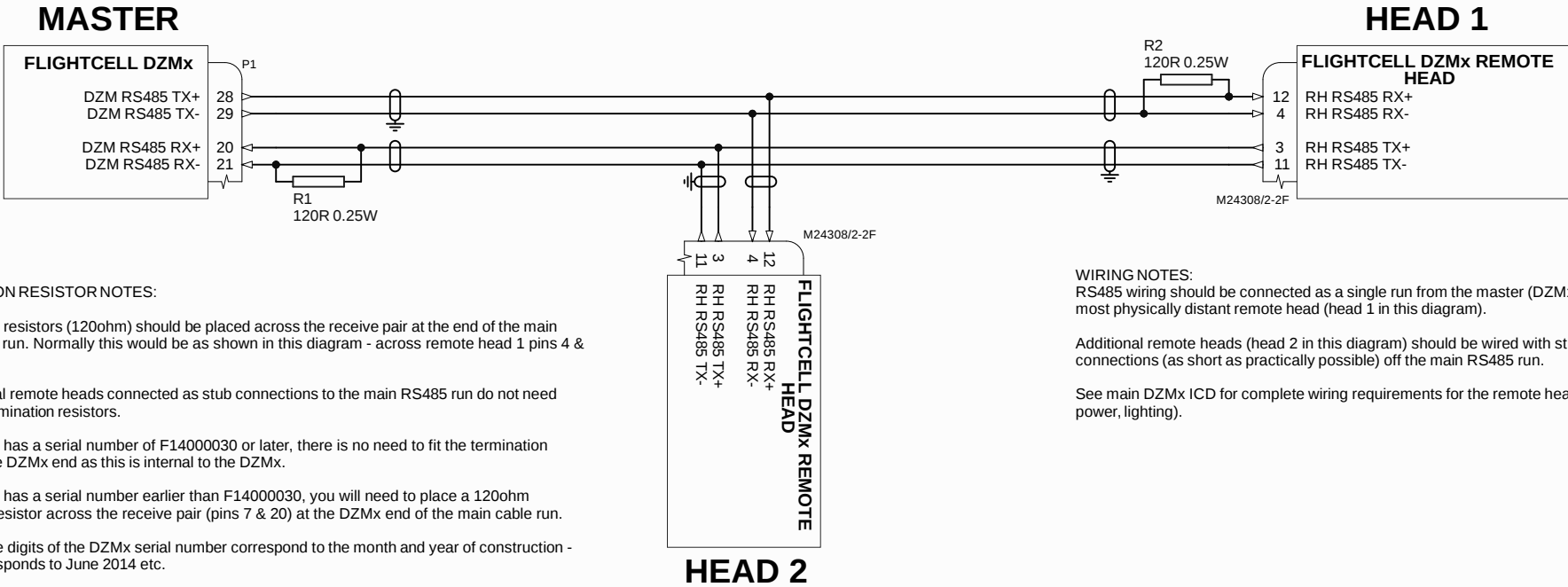
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Product:	Flightcell DZMx	
Sheet:	EXTERNAL RS-232 DEVICE	18 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	EXTERNAL RS-232 DEVICE.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 19 - Multiple Remote Head Interconnections



- NOTES:
- ALL CABLES SHOULD BE 22AWG STRANDED, SCREENED WHERE INDICATED e.g. M27500/-24SB2T14.
 - IT IS RECOMMENDED THAT THE POWER GROUND CONNECTIONS BE RUN SEPARATELY TO A SINGLE EARTHING POINT, SO AS TO MINIMISE GROUND LOOPS
 - SYMBOL DESIGNATIONS

- SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND
- SHIELDED PAIR
SHIELD FLOATING
- UNIT GROUND
- WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	7/09/2023
APP'D	Hannes Booyse	7/09/2023

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Product:	Flightcell DZMx	
Sheet:	Dual Remote Head ICD	19 of 19
Revision:	9.0	
Drawn By:	Richard Benfield	
Filename:	Dual Remote Head Interconnections 2.0.SchDoc	
Date:	7/09/2023	Drawing No: 114-00004