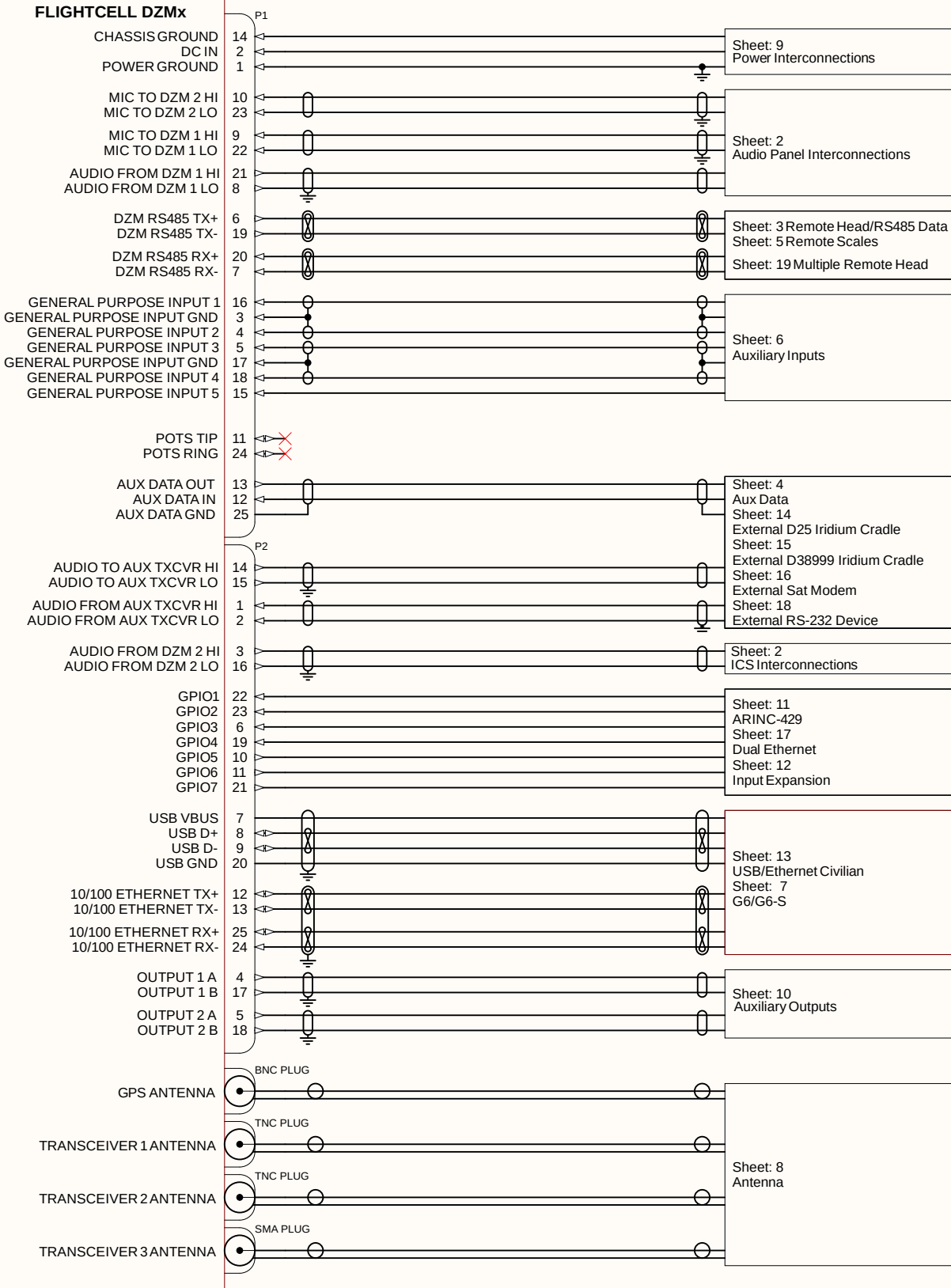
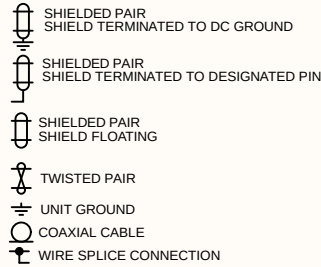


DZMx Civilian Interconnect Drawings
Sheet 1 - DZMx



- 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



REV	DESCRIPTION	DATE
10.0	Removed IDP_00017 added G6 wiring information (HWD-429)	16.04.25
9.1	HW-2433	07.09.23
9.0	HW-2396	18.07.23
8.0	Removed AC lighting reference. Updated antenna p/n's (HW-1064)	12.06.20
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

APPROVALS		DATE
DESIGN	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

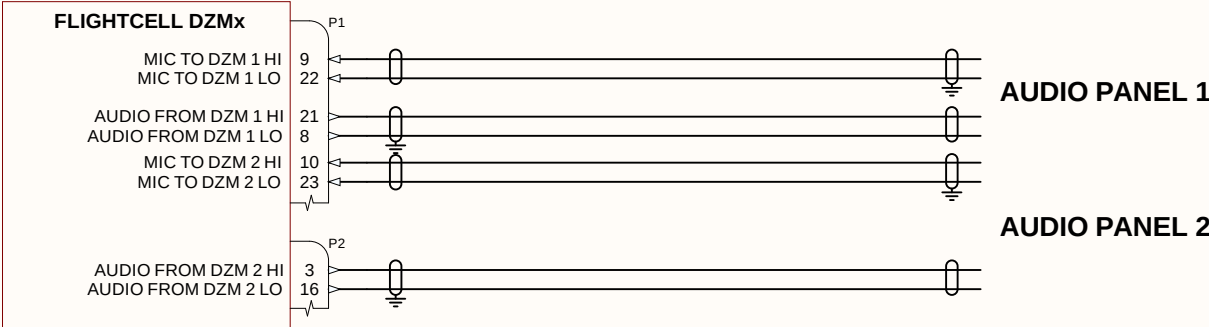


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Product: DZMx Civilian Wiring Diagram
Sheet: DZMx Civilian Wiring Diagram 1 of 19
Revision: 10.0
Drawn By: Hannes Booyse
Filename: Top Level_SchDoc
Date: 16/04/2025 Drawing No: 114-00003

DZMx Civilian Interconnect Drawings

Sheet 2 - Audio Panel 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
- UNIT GROUND

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 some systems it may be necessary to use the biased voltage on the DZMx input (if the system expects mic bias from the radio); otherwise the input should be configured as unbiased.

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

APPROVALS		DATE
DESIGN	Hannes Boooyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

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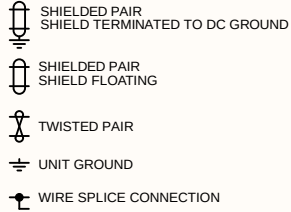
Product:	DZMx Civilian Wiring Diagram
Sheet:	Audio Panel Interconnections 2 of 19
Revision:	10.0
Drawn By:	Hannes Boooyse
Filename:	ICS Interconnections.SchDoc
Date:	16/04/2025
Drawing No:	114-00003

DZMx Civilian Interconnect Drawings

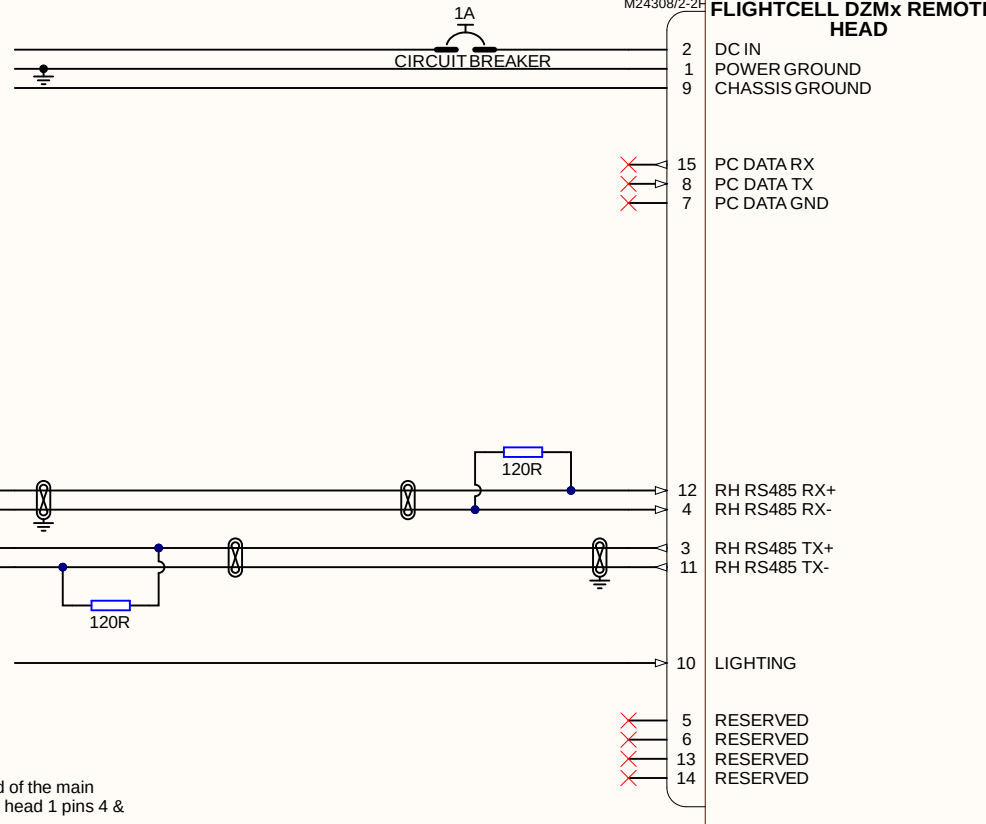
Sheet 3: Remote Head/RS485 Interconnections

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



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



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.

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.

APPROVALS		DATE
DESIGN	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

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Product:	DZMx Civilian Wiring Diagram	
Sheet:	Remote Head/RS485	3 of 19
Revision:	10.0	
Drawn By:	Hannes Booyse	
Filename:	Remote Head Interconnections.SchDoc	
Date:	16/04/2025	Drawing No: 114-00003

DZMx Civilian 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 multipurpose port can be used for diagnostics, connection of an external transceiver, or connection of other serial devices such as a water tank controller.

- 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	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

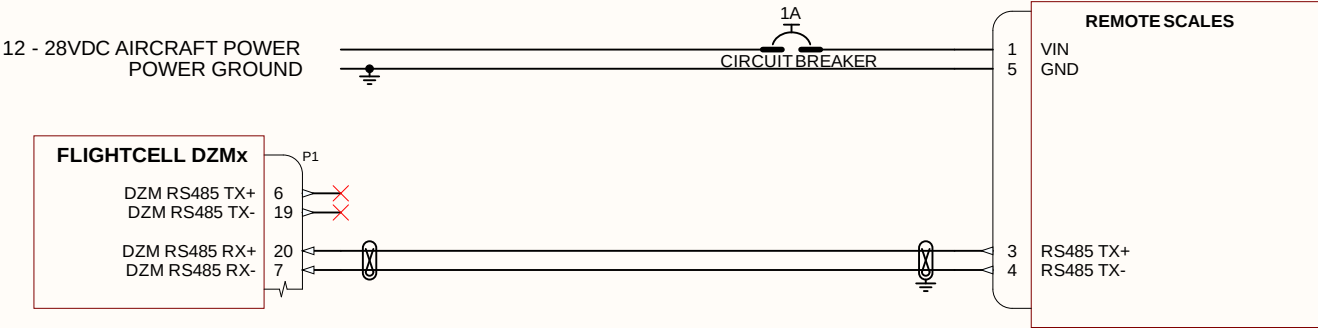
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Product:	DZMx Civilian Wiring Diagram		
Sheet:	Aux Data Interconnections	4	of 19
Revision:	10.0		
Drawn By:	Hannes Booyse		
Filename:	Aux Data Interconnections.SchDoc		
Date:	16/04/2025	Drawing No:	114-00003

DZMx Civilian 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	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

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Product:	DZMx Civilian Wiring Diagram	
Sheet:	Remote Scales	5 of 19
Revision:	10.0	
Drawn By:	Hannes Booyse	
Filename:	Remote Scales Interconnections.SchDoc	
Date:	16/04/2025	Drawing No: 114-00003

DZMx Civilian Interconnect Drawings

Sheet 6 - General Purpose Inputs

Lighting input:
If there is a requirement to dim the DZMx display backlight along with other cockpit lighting, a reference voltage may be fed into this input. Typically with a 0-28VDC range. The DZMx 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.

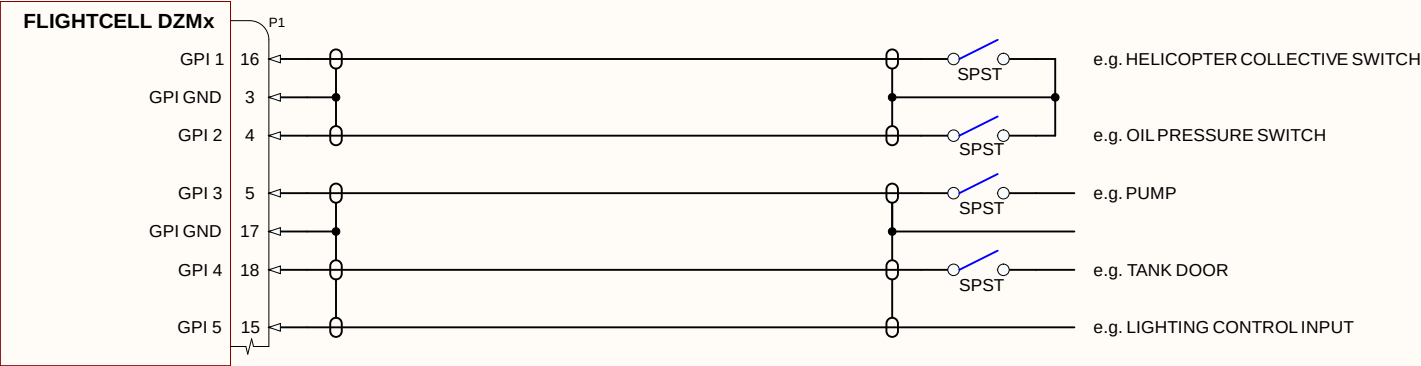
The inputs nominal operating range is 0-28VDC, but they will tolerate an input range of -32 to +32VDC.

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

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	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

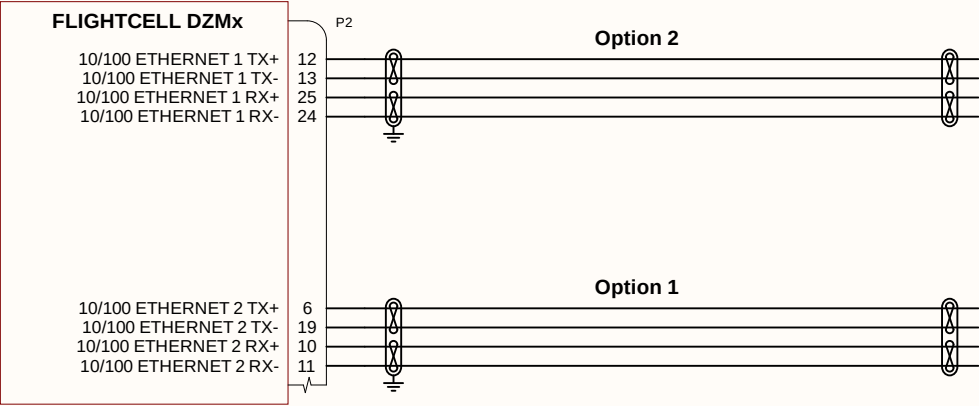
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Product:	DZMx Civilian Wiring Diagram		
Sheet:	General Purpose Inputs	6	of 19
Revision:	10.0		
Drawn By:	Hannes Booyse		
Filename:	Auxiliary Inputs.SchDoc		
Date:	16/04/2025	Drawing No:	114-00003

DZMx Civilian Interconnect Drawings

Sheet 7 - G6/G6-S



- NOTES:
1. It is recommended that installations requiring G6/G6-S be connected to the DZMx units using a secondary ethernet card, wiring OPTION 1.
 2. Units that do not have secondary ethernet cards can be wired as per OPTION 2. However, the ethernet maintenance port will no longer be available. Units using OPTION 2 MUST have Wi-Fi capabilities.
 3. Please refer to the G6/G6-S wiring diagram for unit specific wiring.

- 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	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

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Product:	DZMx Civilian Wiring Diagram	
Sheet:	G6/G6-S	7 of 19
Revision:	10.0	
Drawn By:	Hannes Booyse	
Filename:	G6.SchDoc	
Date:	16/04/2025	Drawing No: 114-00003

DZMx Civilian 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.

Iridium specify that the maximum signal loss in the cable should be 3dB at 1645MHz, so maximum cable lengths are as follows:

- RG174- 2M
- RG400 - 3.86M
- LMR200 - 6.5M
- RG58-9006 cellfoil - 6.5M
- RG213 - 8M
- LMR400 - 17M
- LMR600 - 26M

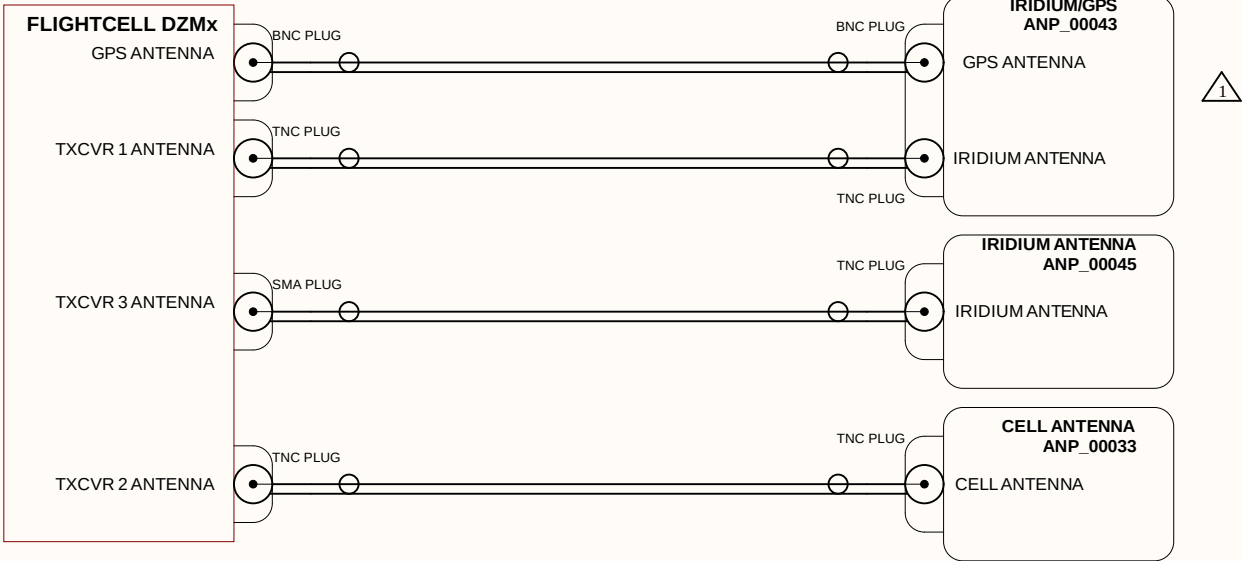
Where practicable the antenna should be placed well clear (at least 500mm and preferably 1000mm) from any other antenna operating at similar frequencies.

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

1 RF configuration shown is indicative of a standard installation, for other options refer to installation manual.

- 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

Q COAXIAL CABLE



APPROVALS		DATE
DESIGN	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

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Product:	DZMx Civilian Wiring Diagram	
Sheet:	Antennas	8 of 19
Revision:	10.0	
Drawn By:	Hannes Booyse	
Filename:	Antenna.SchDoc	
Date:	16/04/2025	Drawing No: 114-00003

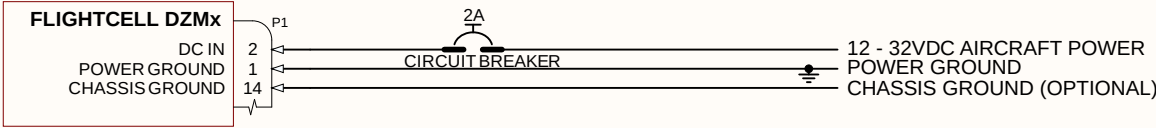
DZMx Civilian Interconnect Drawings

Sheet 9 - Power Interconnections

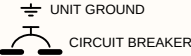
NOTES:

In order to minimise ground loops, it is recommended that the ground connections from the DZMx, 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



CIRCUIT BREAKER

APPROVALS		DATE
DESIGN	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

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Product:	DZMx Civilian Wiring Diagram	
Sheet:	Power Interconnections	9 of 19
Revision:	10.0	
Drawn By:	Hannes Booyse	
Filename:	Power Interconnections.SchDoc	
Date:	16/04/2025	Drawing No: 114-00003

DZMx Civilian Interconnect Drawings

Sheet 10 - Auxiliary Outputs

NOTES:

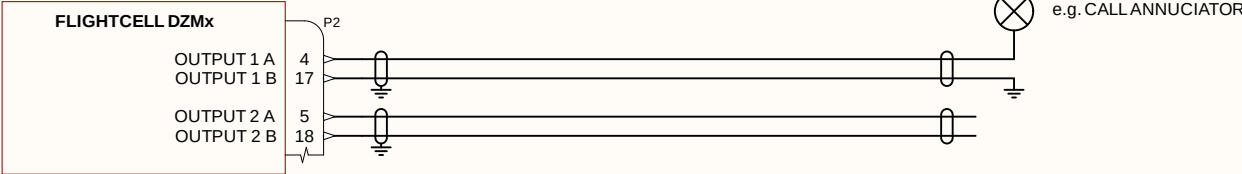
The auxiliary outputs can be used to switch external loads, e.g. annunciator panel indicator.

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 DZMx internal circuitry.

Each Relay output is across terminals A and B.

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



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

UNIT GROUND

WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

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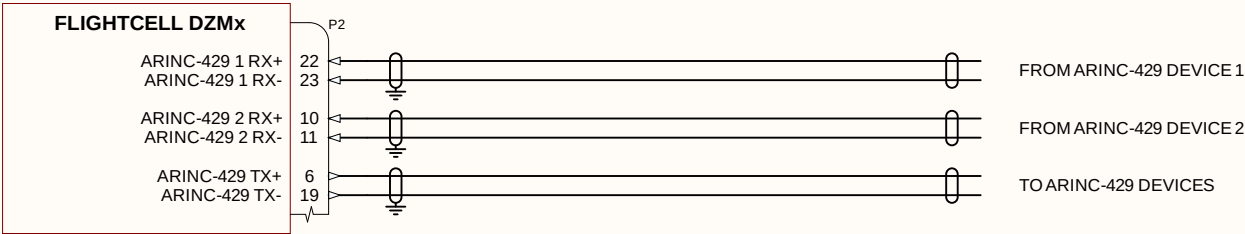
Product:	DZMx Civilian Wiring Diagram	
Sheet:	Auxiliary Outputs	10 of 19
Revision:	10.0	
Drawn By:	Hannes Booyse	
Filename:	Auxiliary Outputs.SchDoc	
Date:	16/04/2025	Drawing No: 114-00003

DZMx Civilian 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:

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

APPROVALS		DATE
DESIGN	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

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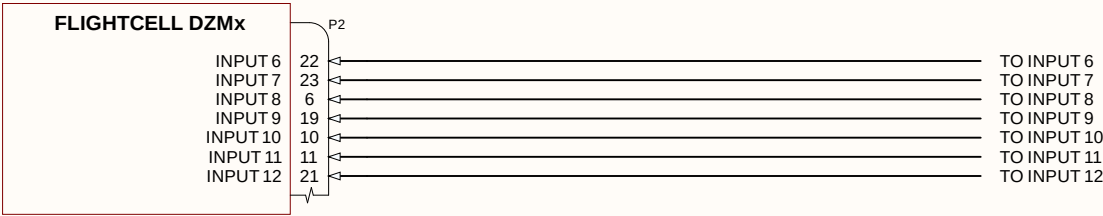
Product:	DZMx Civilian Wiring Diagram	
Sheet:	ARINC-429 Interconnections	11 of 19
Revision:	10.0	
Drawn By:	Hannes Booyse	
Filename:	ARINC-429 Interconnections.SchDoc	
Date:	16/04/2025	Drawing No: 114-00003

DZMx Civilian 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	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

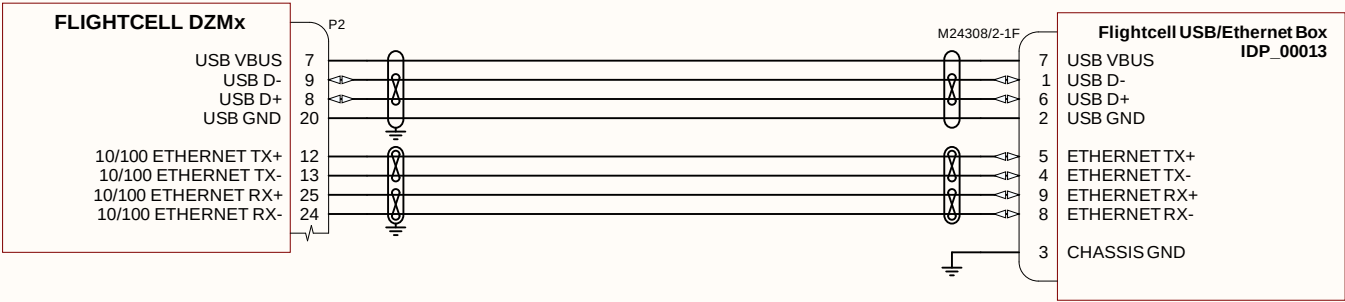
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Product:	DZMx Civilian Wiring Diagram		
Sheet:	Input Expansion Connections	12 of	19
Revision:	10.0		
Drawn By:	Hannes Booyse		
Filename:	Input Expansion Interconnections.SchDoc		
Date:	16/04/2025	Drawing No:	114-00003

DZMx Civilian Interconnect Drawings

Sheet 13 - Civilian 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 Ethernet 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	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

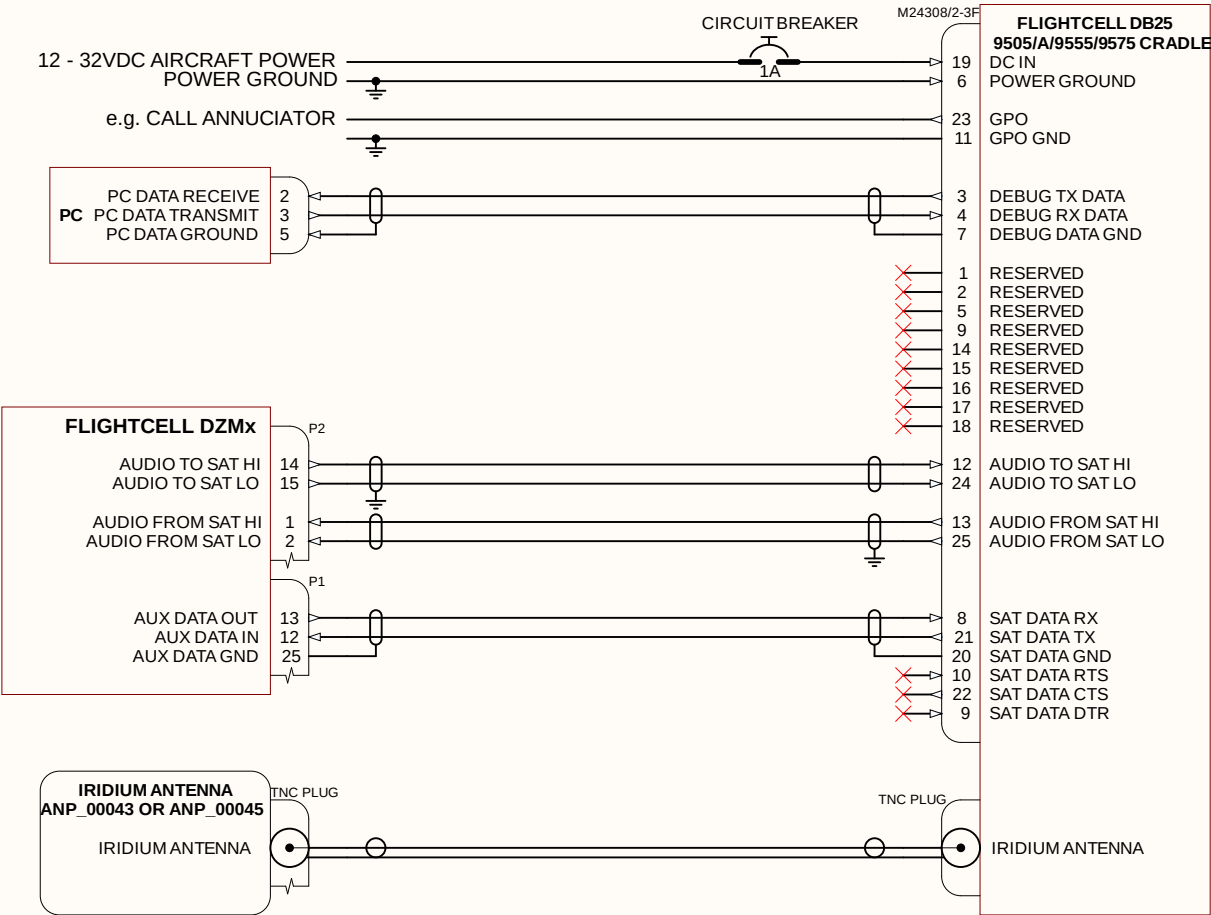
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Product:	DZMx Civilian Wiring Diagram
Sheet:	USB/Ethernet Interconnections 13 of 19
Revision:	10.0
Drawn By:	Hannes Booyse
Filename:	USB Ethernet Civ.SchDoc
Date:	16/04/2025
Drawing No:	114-00003

DZMx Civilian 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.

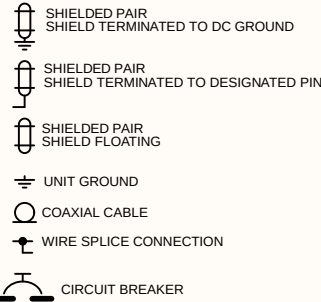
The output is capable of switching a 100mA load. The max applied voltage must not exceed 32VDC.

The output can be configured via the DZMx Connect.

The Debug port is not required for normal use.

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	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

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Product:	DZMx Civilian Wiring Diagram
Sheet:	External DB25 Iridium Cradle 14 of 19
Revision:	10.0
Drawn By:	Hannes Booyse
Filename:	Aux DB25 Iridium Cradle.SchDoc
Date:	16/04/2025
Drawing No:	114-00003

1

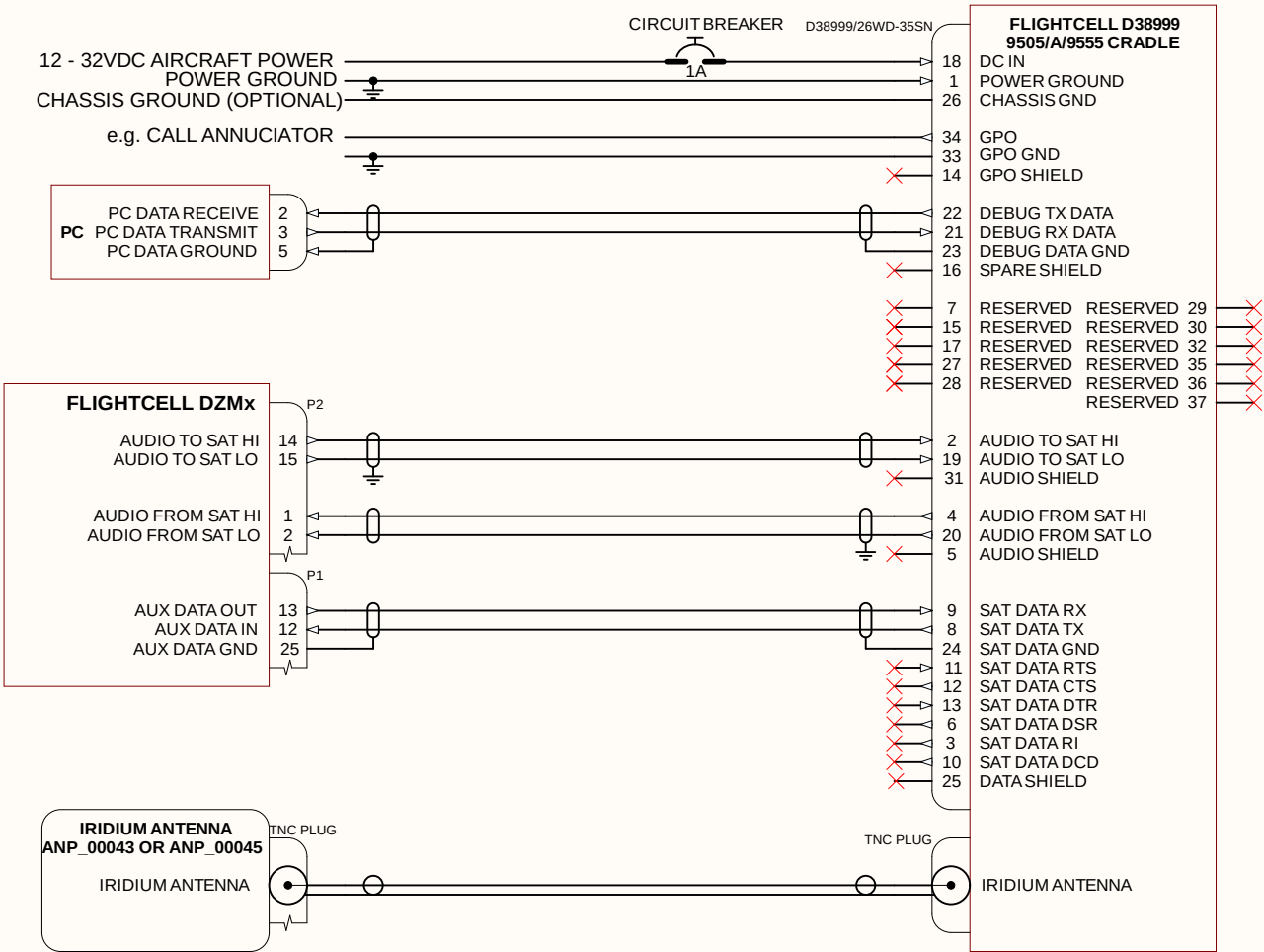
2

3

4

DZMx Civilian 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 DZMx Connect.

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
- SHIELDED PAIR SHIELD TERMINATED TO DC GROUND
- SHIELDED PAIR SHIELD TERMINATED TO DESIGNATED PIN
- SHIELDED PAIR SHIELD FLOATING
- UNIT GROUND
- COAXIAL CABLE
- WIRE SPLICE CONNECTION
- CIRCUIT BREAKER

APPROVALS		DATE
DESIGN	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

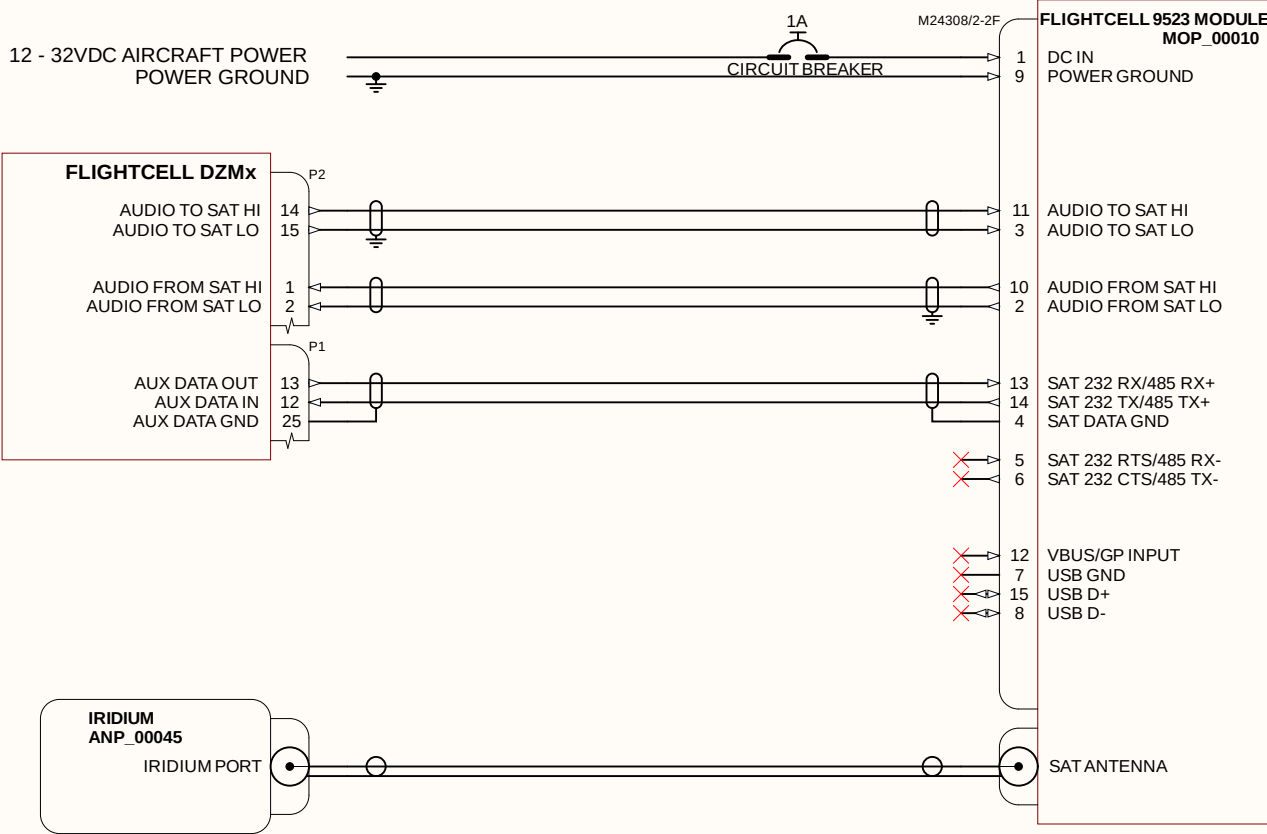
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Product:	DZMx Civilian Wiring Diagram
Sheet:	External D38999 Iridium Cradle 15 of 19
Revision:	10.0
Drawn By:	Hannes Booyse
Filename:	Aux D38999 Iridium Cradle.SchDoc
Date:	16/04/2025
Drawing No:	114-00003

DZMx Civilian Interconnect Drawings

Sheet 16 - Optional External Iridium Module



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.

Iridium specify that the maximum signal loss in the cable should be 3dB at 1645MHz, so maximum cable lengths are as follows:

- RG174- 2M
- RG400 - 3.86M
- LMR200 - 6.5M
- RG58-9006 cellfoil - 6.5M
- RG213 - 8M
- LMR400 - 17M
- LMR600 - 26M

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	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

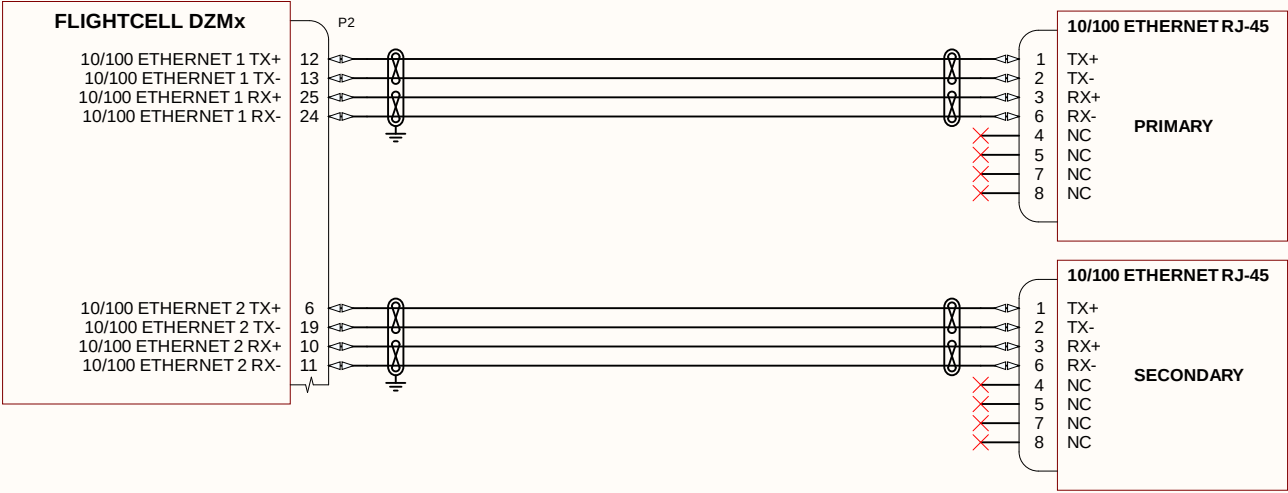
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Product:	DZMx Civilian Wiring Diagram	
Sheet:	External Iridium Module	16 of 19
Revision:	10.0	
Drawn By:	Hannes Booyse	
Filename:	Aux Sat Modem Interconnections.SchDoc	
Date:	16/04/2025	Drawing No: 114-00003

DZMx Civilian Interconnect Drawings

Sheet 17 - Dual Ethernet 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. 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

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

APPROVALS		DATE
DESIGN	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

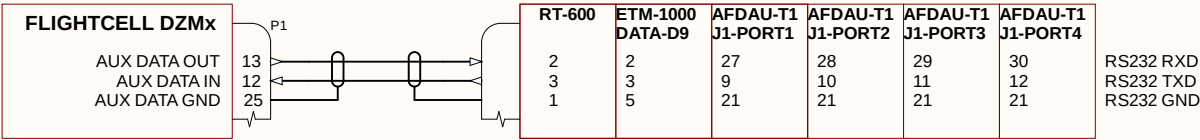
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Product: DZMx Civilian Wiring Diagram
Sheet: Dual Ethernet Interconnections 17 of 19
Revision: 10.0
Drawn By: Hannes Booyse
Filename: Dual Ethernet.SchDoc
Date: 16/04/2025 Drawing No: 114-00003

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	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

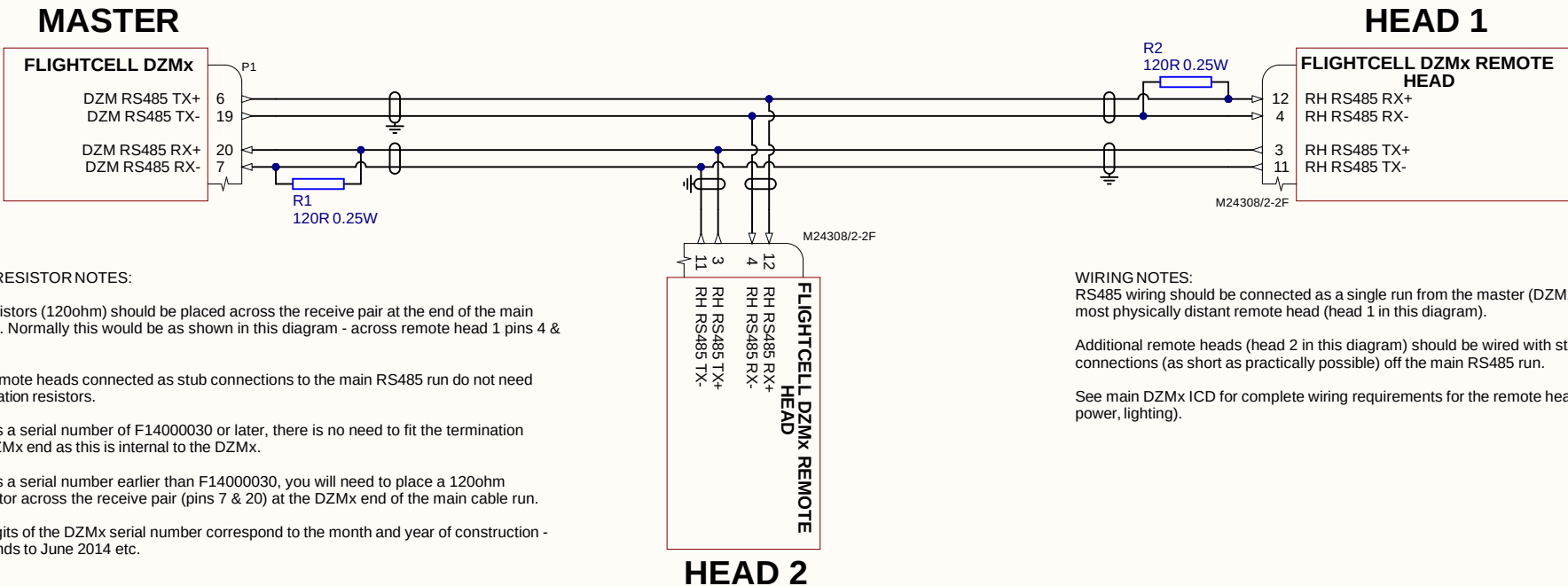
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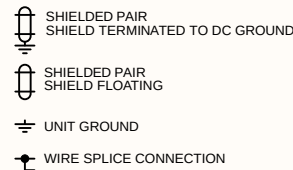
Product:	DZMx Civilian Wiring Diagram	
Sheet:	RT-600 Direction Finder	18 of 19
Revision:	10.0	
Drawn By:	Hannes Booyse	
Filename:	EXTERNAL RS-232 DEVICE.SchDoc	
Date:	16/04/2025	Drawing No: 114-00003

DZMx Civilian 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



APPROVALS		DATE
DESIGN	Hannes Booyse	16/04/2025
APP'D	Richard Benfield	16/04/2025

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Product:	DZMx Civilian Wiring Diagram	
Sheet:	Dual Remote Head ICD	19 of 19
Revision:	10.0	
Drawn By:	Hannes Booyse	
Filename:	Dual Remote Head Interconnections 2.0.SchDoc	
Date:	16/04/2025	Drawing No: 114-00003