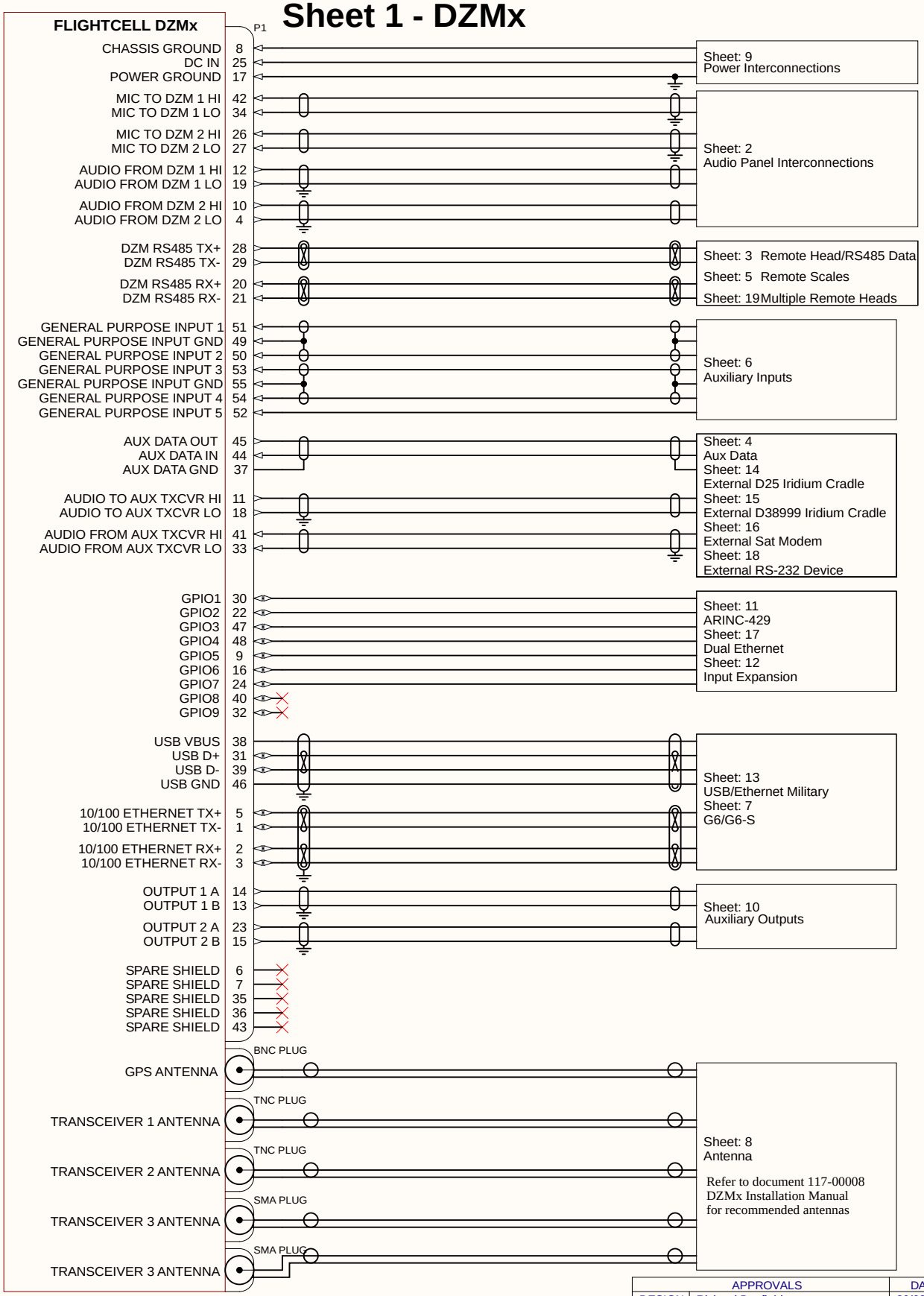
DZMx Military Interconnect Drawings
Sheet 1 - DZMx



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

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

REV	DESCRIPTION	DATE
11.2	HWD-627	19/02/26
11.1	HWD-556	16/10/25
11.0	Added diversity antenna, updated coax information HWD-465	12/06/25
10.0	Removed IDP_00017 added G6 wiring information (HWD-430)	05/06/25
9.0	HW-2397	07/09/23
8.0	Removed AC lighting referrence. Updated antenna p/n'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

APPROVALS		DATE
DESIGN	Richard Benfield	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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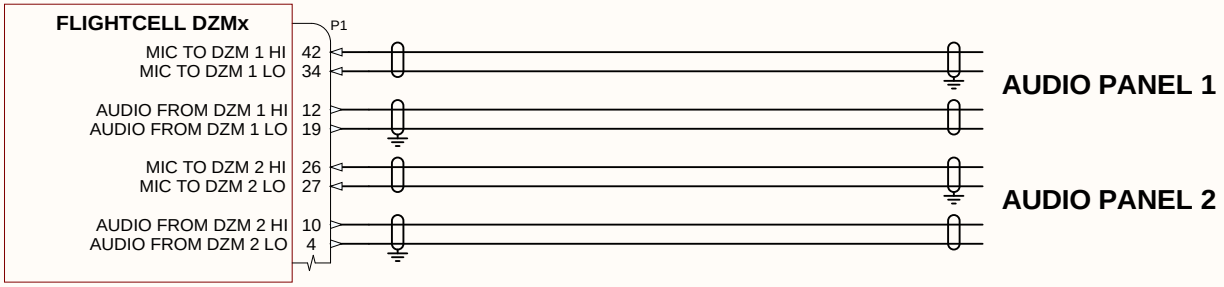
Product:	DZMx Military Wiring Diagram
Sheet:	DZMx Military Wiring Diagram 1 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Top Level.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

DZMx Military 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 systems it may be neccessary 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	Richard Benfield	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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Product: DZMx Military Wiring Diagram
Sheet: Audio Panel Interconnections 2 of 19
Revision: 11.2
Drawn By: Richard Benfield
Filename: ICS Interconnections.SchDoc
Date: 20/02/2026 Drawing No: 114-00004

DZMx Military 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

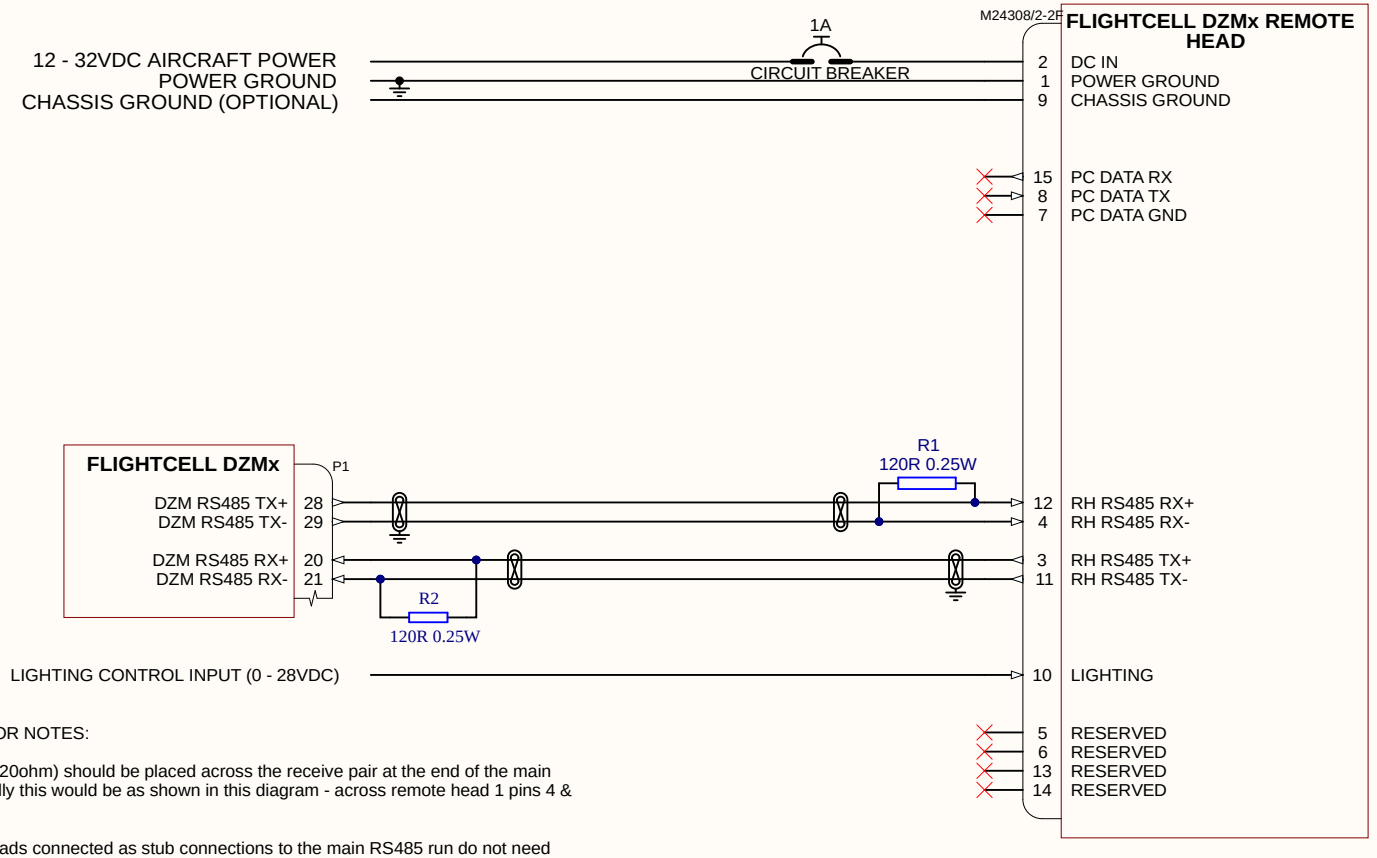
SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND

SHIELDED PAIR
SHIELD FLOATING

TWISTED PAIR

UNIT GROUND

WIRE SPLICE CONNECTION



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	Richard Benfield	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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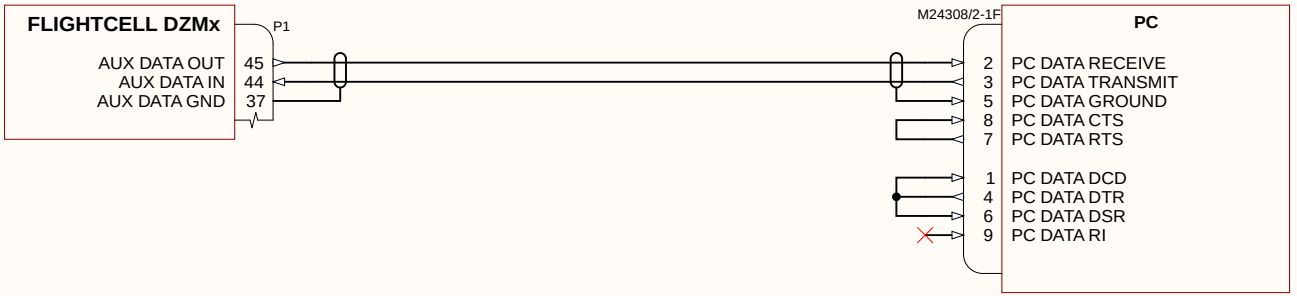
Product:	DZMx Military Wiring Diagram
Sheet:	Remote Head/RS485 3 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Remote Head Interconnections.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

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 conecting 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	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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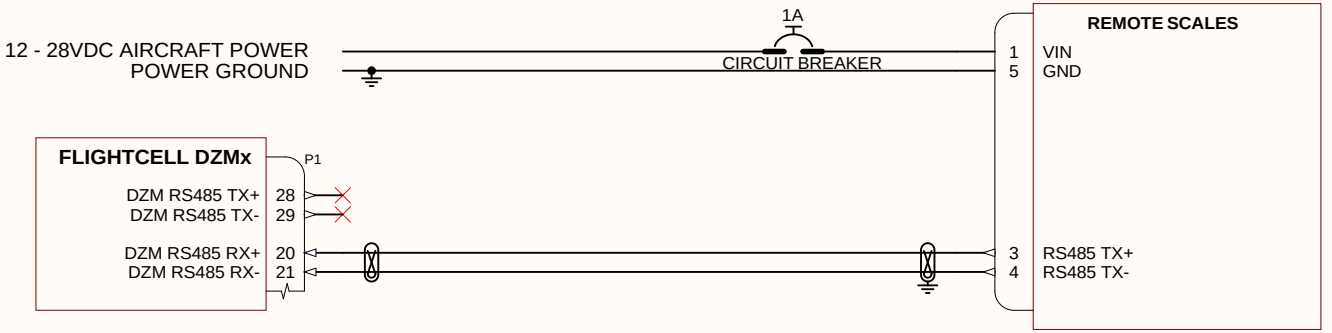
Product:	DZMx Military Wiring Diagram
Sheet:	Aux Data Interconnections 4 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Aux Data Interconnections.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

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	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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Product:	DZMx Military Wiring Diagram
Sheet:	Remote Scales 5 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Remote Scales Interconnections.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

DZMx Military 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:

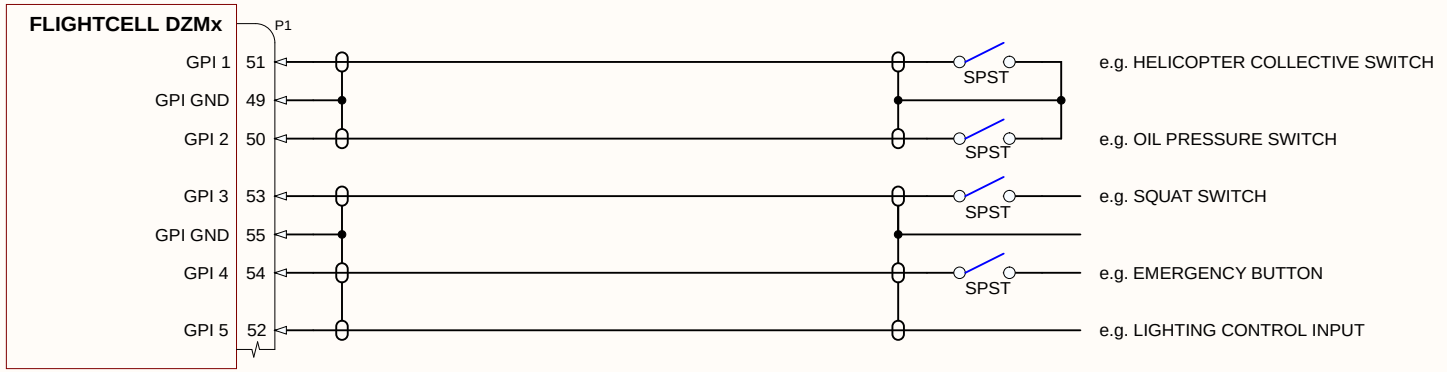
The input's are all configurable as either variable or switched with adjustable thresholds.

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 aicraft chassis ground can be used for the input return signal 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. SYMBOL DESIGNATIONS
   SHIELDED SINGLE CONDUCTOR
   SHIELD TERMINATED TO DESIGNATED PIN
   WIRE SPLICE CONNECTION

APPROVALS		DATE
DESIGN	Richard Benfield	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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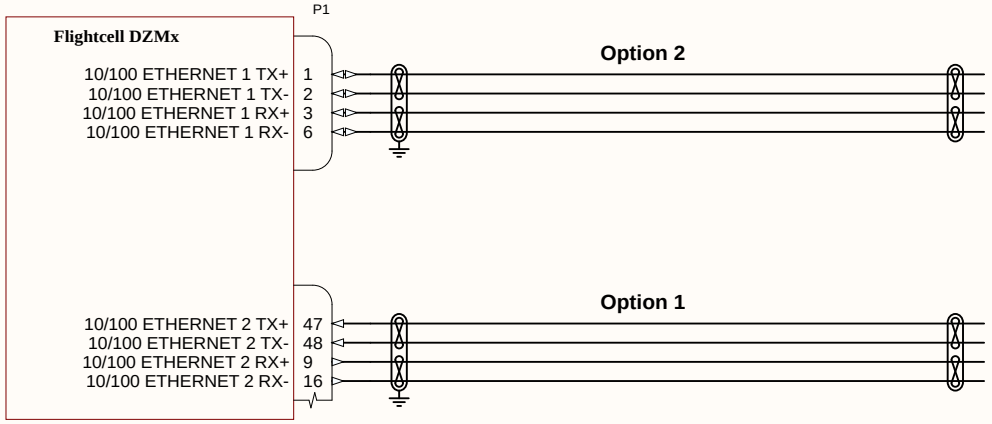
Product:	DZMx Military Wiring Diagram
Sheet:	General Purpose Inputs 6 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Auxiliary Inputs.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

DZMx Military Interconnect Drawings

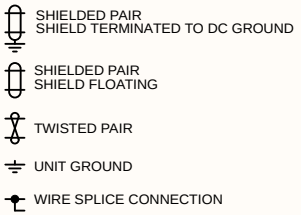
Sheet 7 - G6/G6-S



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. 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



APPROVALS		DATE
DESIGN	Richard Benfield	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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Product:	DZMx Military Wiring Diagram
Sheet:	G6/G6-S 7 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	G6-S.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

DZMx Military Interconnect Drawings
Sheet 8 - Antennas

IMPORTANT:

- Minimising signal loss is critical to maintaining reliable connectivity. Refer to document 117-00008 DZMx Installation Manual for detailed guidance on coaxial cable selection and maximum run lengths.

- Low Loss Cable is required for cellular RF connections

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.

- Antennas should be mounted away from rotating components (rotor blades, tail rotor).

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

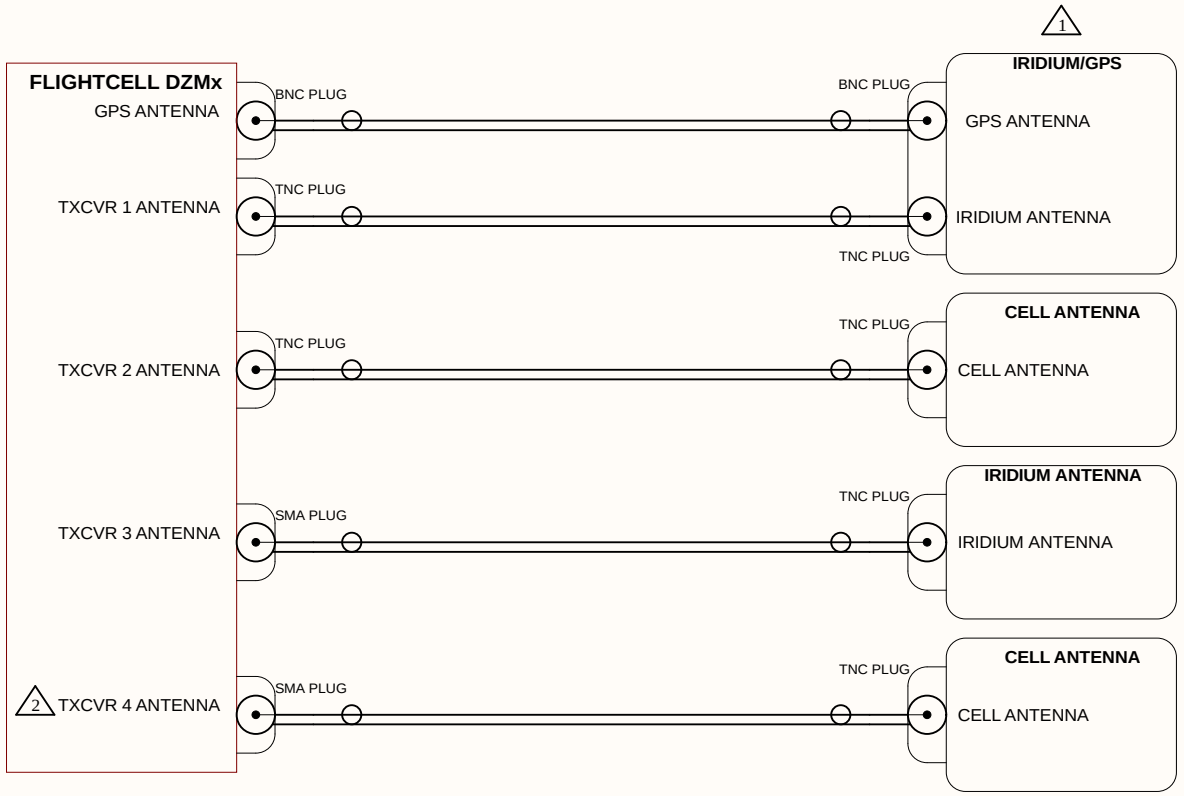
- Cell diversity antenna should be spaced no closer than 300mm from Main antenna, larger distances are advised. The isolation between the two antennas should be >10dB.

1 - The setup shown is an installation with two Iridium transceivers and one Cellular transceiver with diversity, for other options refer to installation manual.

- Standard DZMx units are equipped with two transceivers (SAT/CELL combination). An optional third transceiver can be added, which is typically either an Iridium 9603 satellite module or an SDR (Software Defined Receiver) module, providing additional satellite communication capability or specialized AIS, ADSB, FM radio functions. Contact Flightcell for more information.

- Please refer to document 117-00008 DZMx Installation Manual for antenna options.

2 - Cell diversity antenna



APPROVALS		DATE
DESIGN	Richard Benfield	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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

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Product:	DZMx Military Wiring Diagram
Sheet:	Antenna 8 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Antenna.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

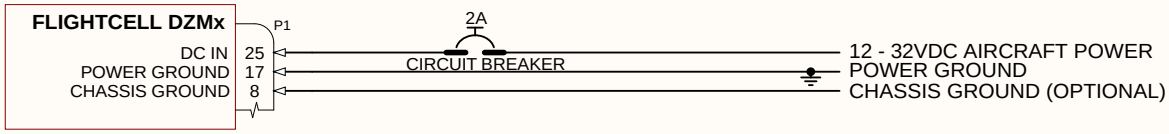
DZMx Military Interconnect Drawings

Sheet 9 - Power Interconnections

NOTES:

In order to minimise ground loops, it is recommended that the ground connections from the DZMx, external satphone or cell modem (if fitted) are run seperately 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

UNIT GROUND

CIRCUIT BREAKER

APPROVALS		DATE
DESIGN	Richard Benfield	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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Product:	DZMx Military Wiring Diagram
Sheet:	Power Interconnections 9 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Power Interconnections.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 10 - Auxiliary Outputs

NOTES:

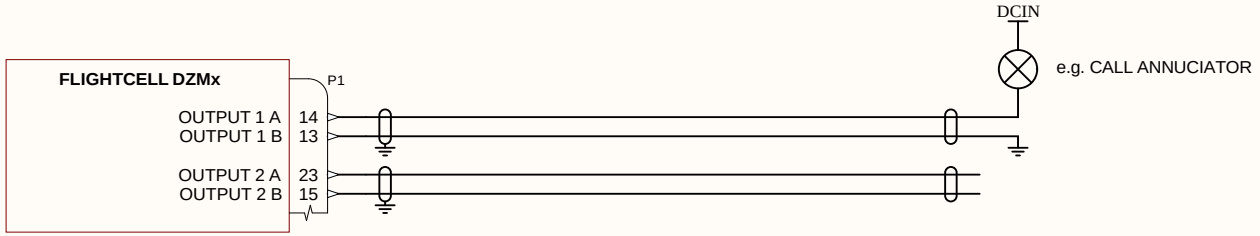
The auxiliary outputs can be used to switch external loads, e.g. annunciator panel indicator.

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 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	Richard Benfield	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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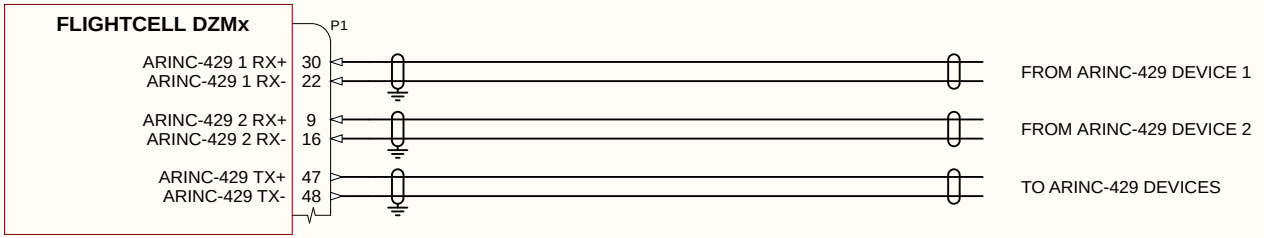
Product:	DZMx Military Wiring Diagram
Sheet:	Auxiliary Outputs 10 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Auxiliary Outputs.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

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	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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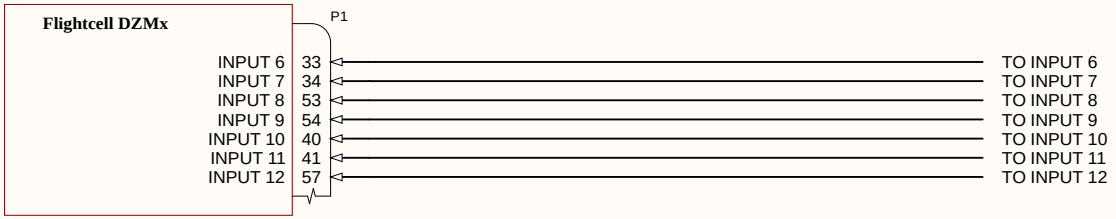
Product:	DZMx Military Wiring Diagram
Sheet:	ARINC-429 Interconnections 11 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	ARINC-429 Interconnections.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

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	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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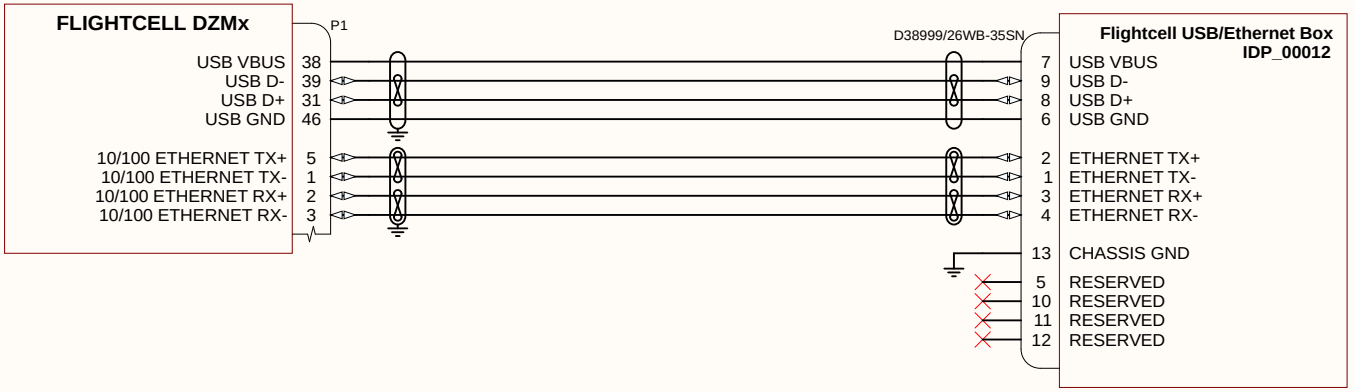
Product:	DZMx Military Wiring Diagram
Sheet:	Input Expansion Connections 12 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Input Expansion Interconnections.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

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	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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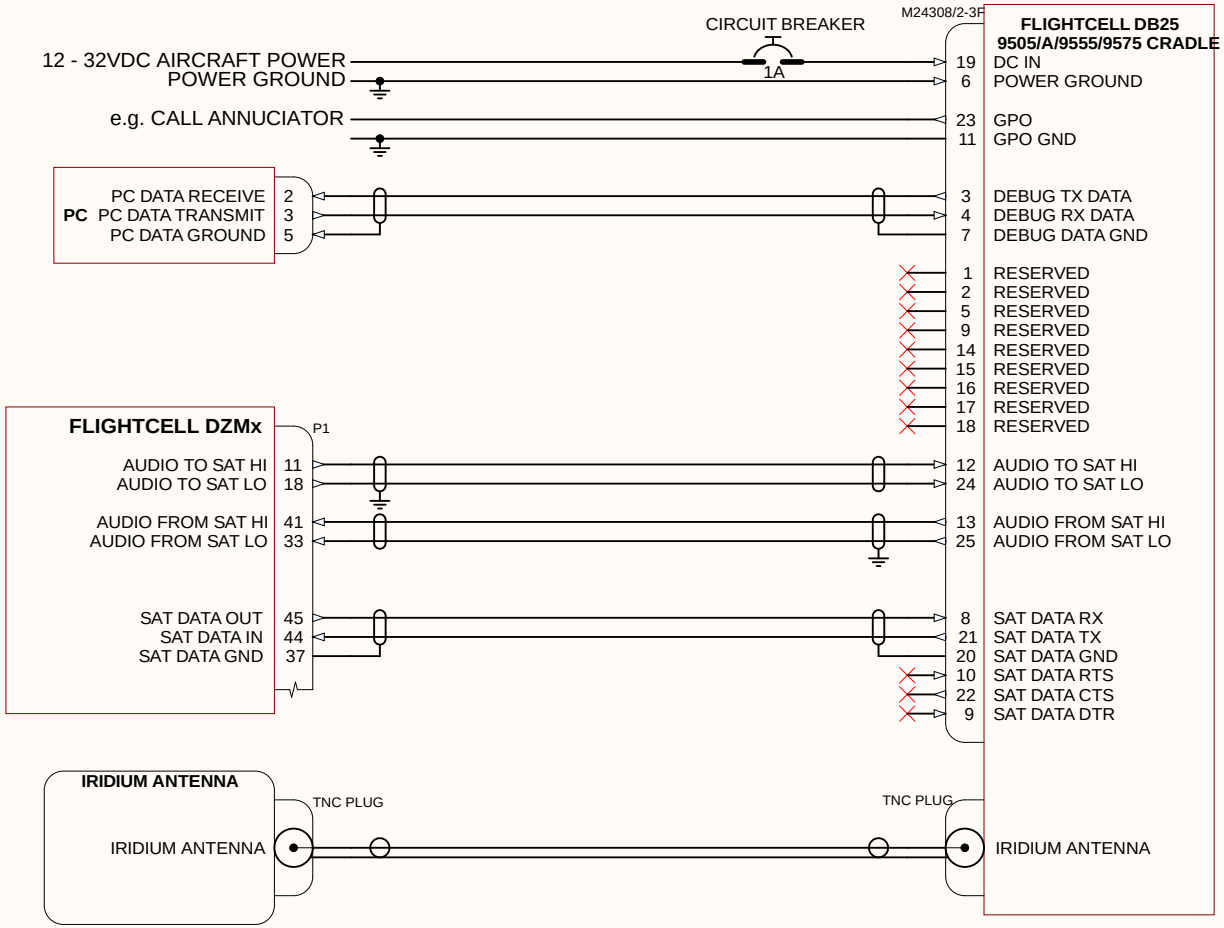
Product:	DZMx Military Wiring Diagram
Sheet:	USB/Ethernet Interconnections 13 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	USB Ethernet Mil.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

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 DZMx Connect.

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

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	Richard Benfield	20/02/2026
APP'D	Hannes Booyse	20/02/2026

Flightcell

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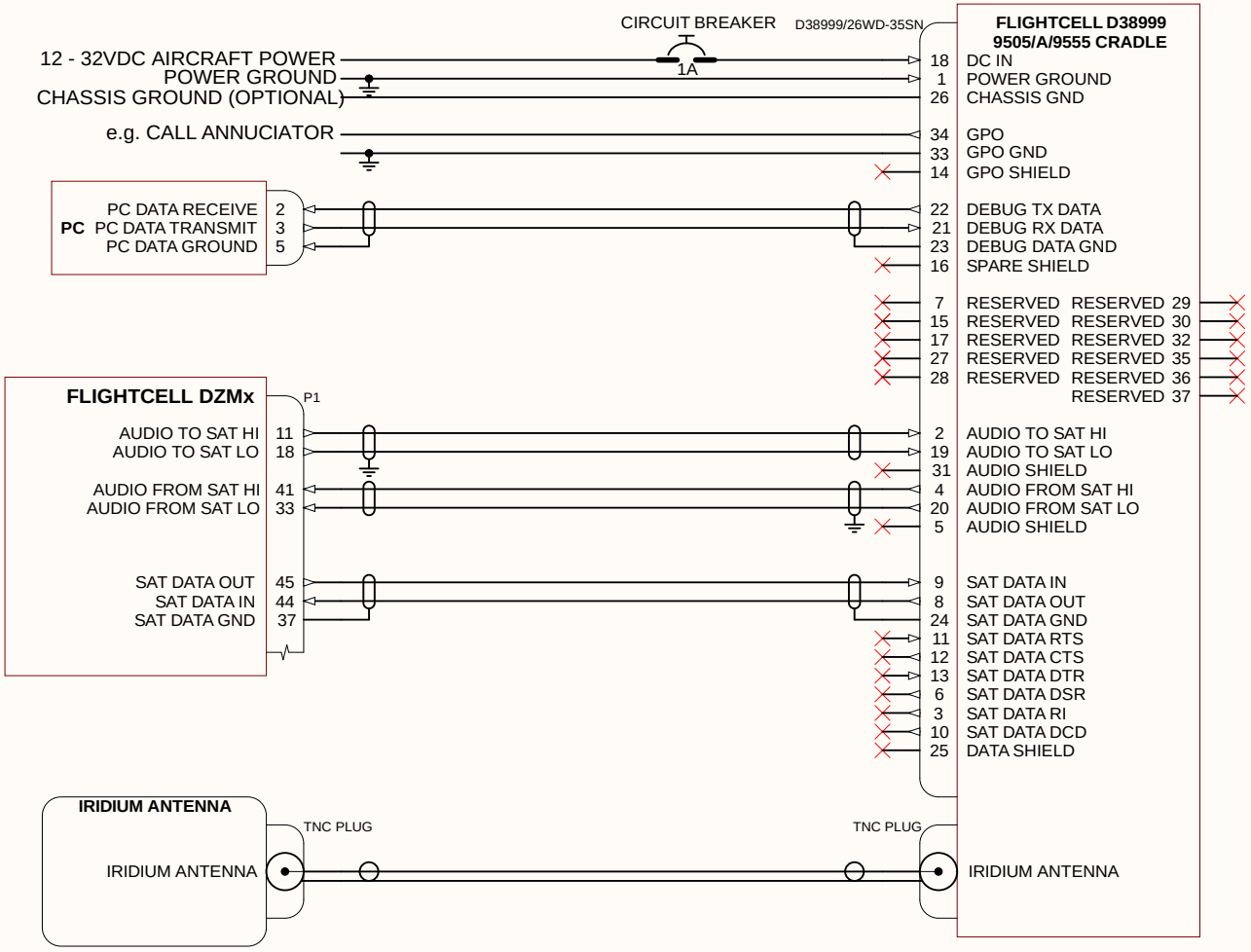
Product:	DZMx Military Wiring Diagram
Sheet:	External DB25 Iridium Cradle 14 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Aux DB25 Iridium Cradle.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

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 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:
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 TERMINATED TO DESIGNATED PIN

SHIELDED PAIR
SHIELD FLOATING

UNIT GROUND

COAXIAL CABLE

WIRE SPLICE CONNECTION

CIRCUIT BREAKER

APPROVALS		DATE
DESIGN	Richard Benfield	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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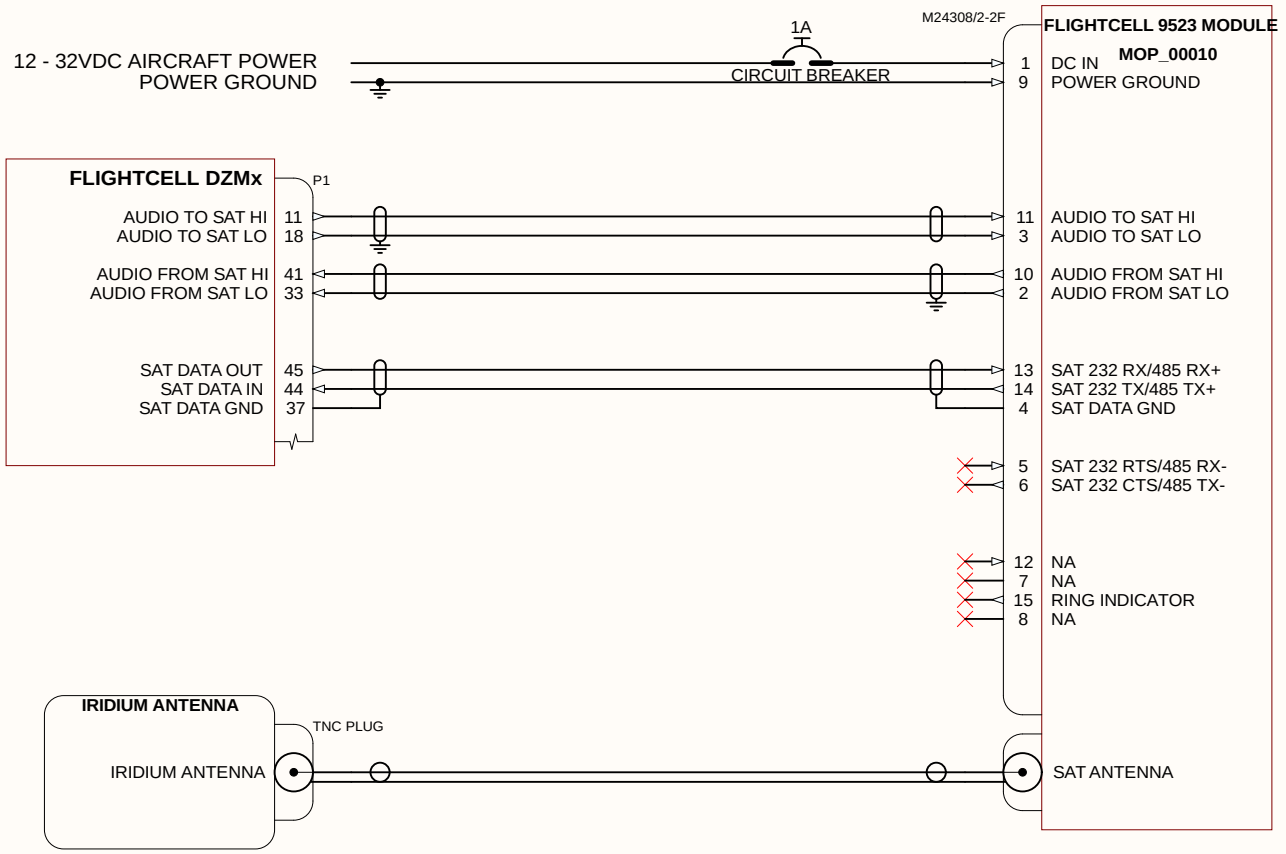
Product:	DZMx Military Wiring Diagram
Sheet:	External D38999 Iridium Cradle15 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Aux D38999 Iridium Cradle.SchDoc
Date:	20/02/2026 Drawing No: 114-00004

DZMx Military Interconnect Drawings
Sheet 16 - Optional External Iridium Module



IMPORTANT:
Minimising signal loss is critical to maintaining reliable connectivity. Refer to document 117-00008 DZMx Installation Manual for detailed guidance on coaxial cable selection and maximum run lengths.

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.

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

- Please contact Flightcell for Antenna options.

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	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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Product:	DZMx Military Wiring Diagram
Sheet:	External Iridium Module 16 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Aux Sat Modem Interconnections.SchDoc
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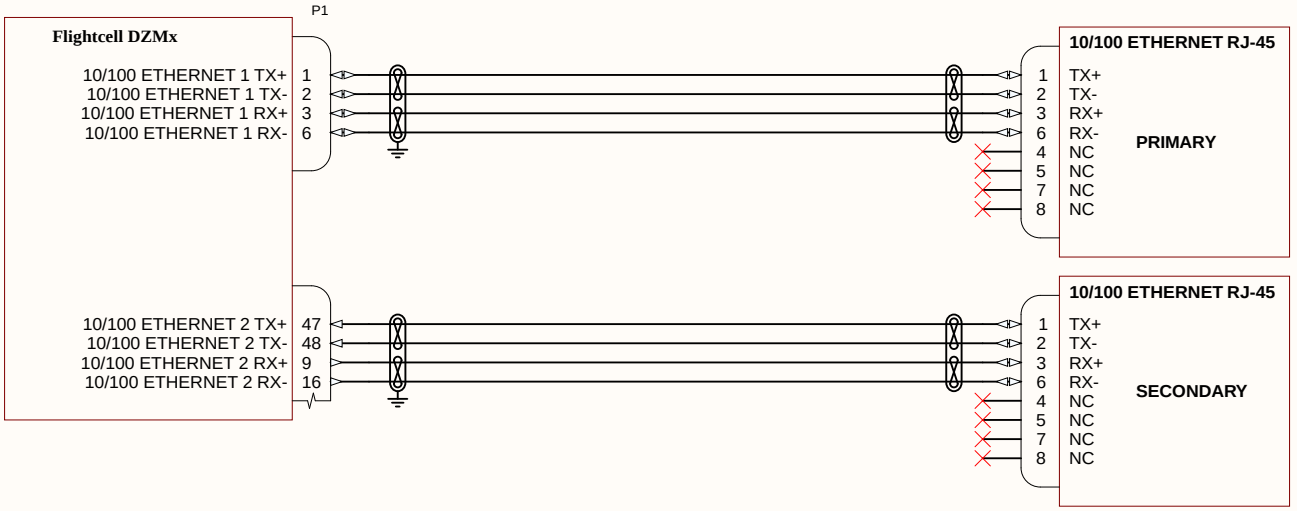
DZMx Military Interconnect Drawings

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	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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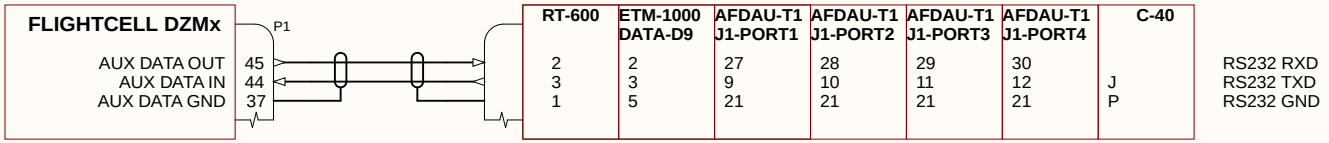
Product: DZMx Military Wiring Diagram
Sheet: 17 of 19
Revision: 11.2
Drawn By: Richard Benfield
Filename: Dual Ethernet.SchDoc
Date: 20/02/2026 Drawing No: 114-00004

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	20/02/2026
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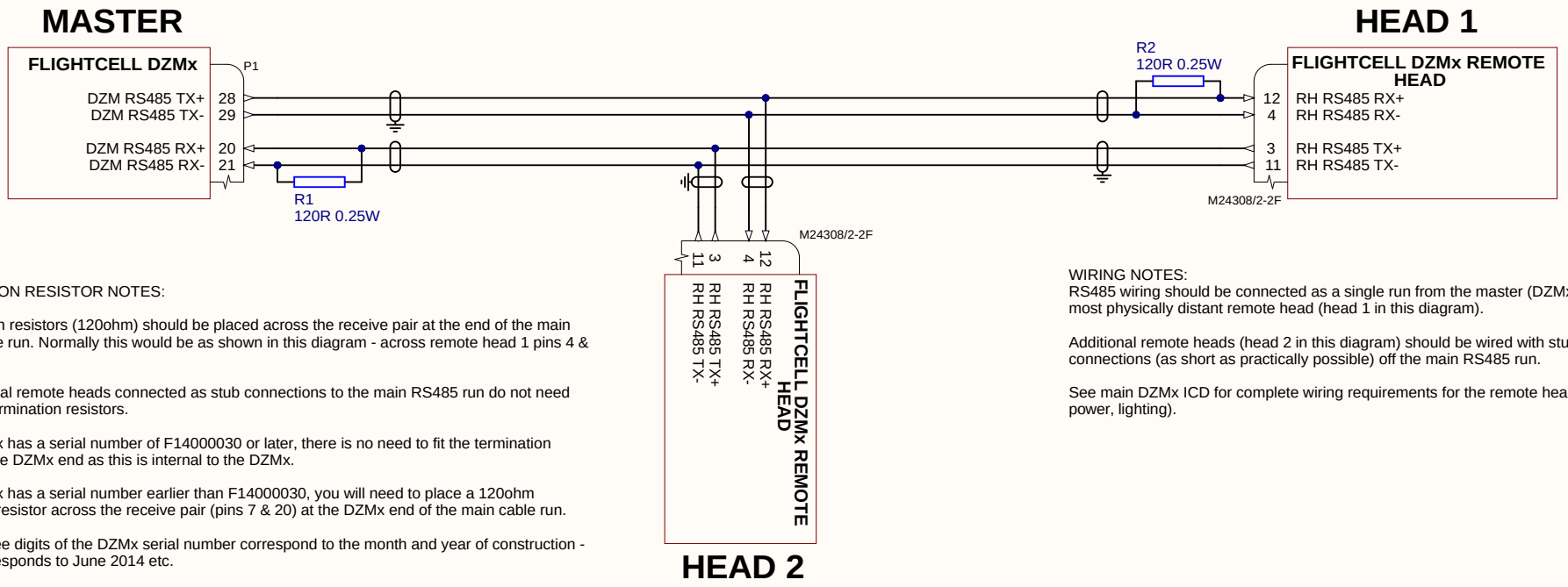
Product: DZMx Military Wiring Diagram
Sheet: EXTERNAL RS-232 DEVICE 18 of 19
Revision: 11.2
Drawn By: Richard Benfield
Filename: EXTERNAL RS-232 DEVICE.SchDoc
Date: 20/02/2026 Drawing No: 114-00004

DZMx Military Interconnect Drawings

Sheet 19 - Multiple Remote Head Interconnections



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.

WIRING NOTES:
RS485 wiring should be connected as a single run from the master (DZMx) to the most physically distant remote head (head 1 in this diagram).

Additional remote heads (head 2 in this diagram) should be wired with stub connections (as short as practically possible) off the main RS485 run.

See main DZMx ICD for complete wiring requirements for the remote heads (e.g. power, lighting).

NOTES:
ALL 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	20/02/2026
APP'D	Hannes Booyse	20/02/2026

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Product:	DZMx Military Wiring Diagram
Sheet:	Dual Remote Head ICD 19 of 19
Revision:	11.2
Drawn By:	Richard Benfield
Filename:	Dual Remote Head Interconnections 2.0.SchDoc
Date:	20/02/2026 Drawing No: 114-00004