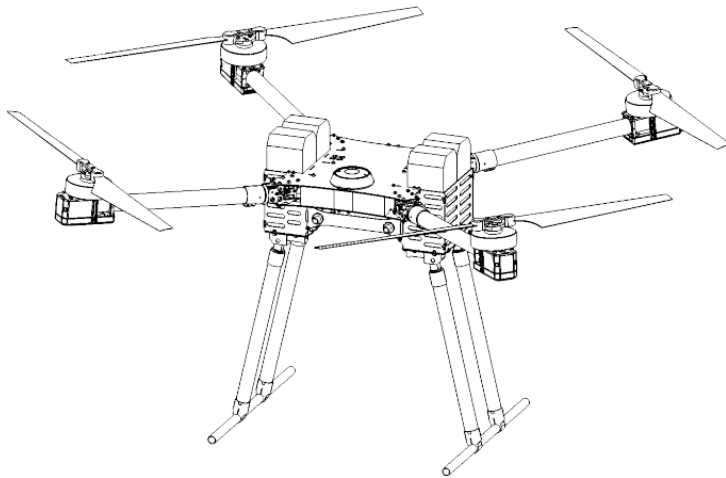


Dronix DR1200 ICD

Ver 1.0122



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Designed for Flexibility Engineered for Endurance

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1. Introduction

This document describes the mechanical and electrical ICD and Interconnect for the Dronix DR1200 platform.

2. Mechanical interfaces

- 2.1. To simplify the external interface to the payloads the DR1200 has a double carbon tube rails with a shock-absorbing damper system.
- 2.2. the shock-absorbing system allows customers to simplify the payload integration.
- 2.3. Dronix Customized payloads plate can be integrated easily into the mechanical interface of the drone

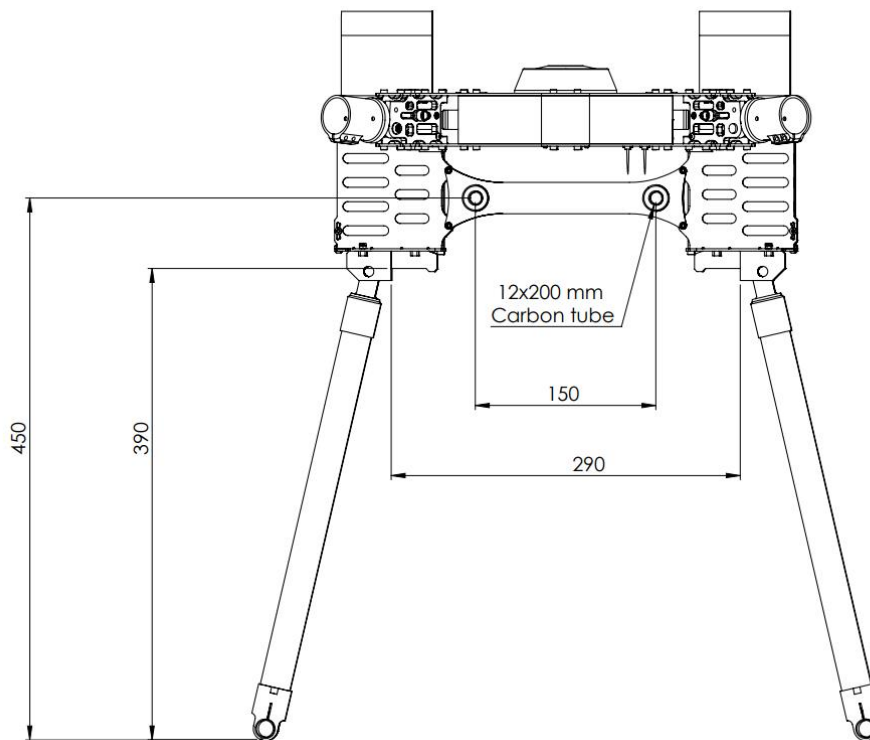


Figure 2.1: DR1200 front mechanical interfaces scheme

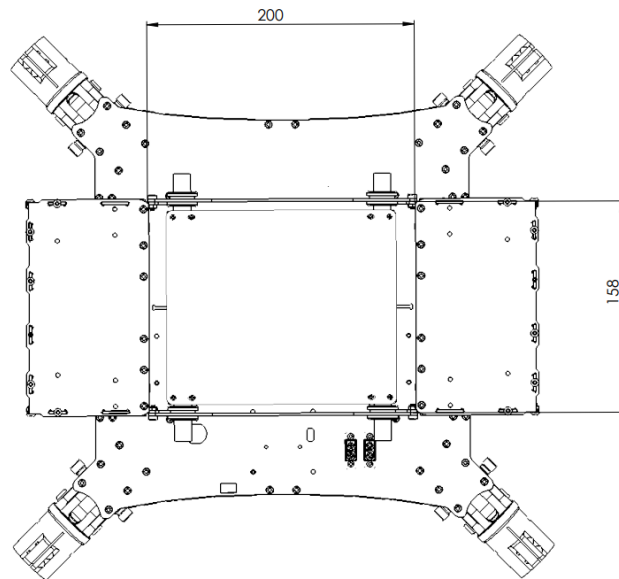


Figure 2.1: DR1200 bottom mechanical interfaces scheme

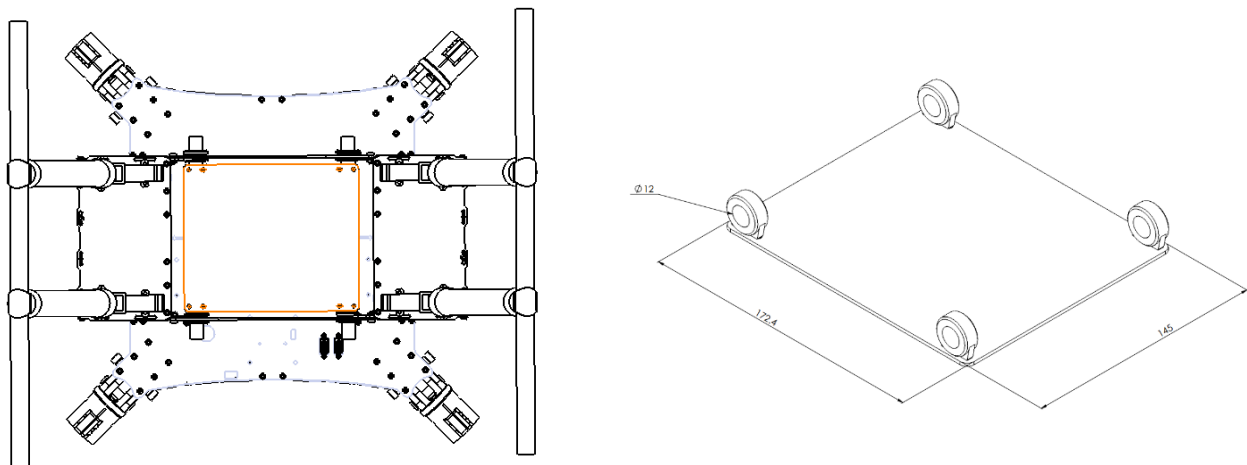


Figure 2.3: DR1200 Customized payloads plate mechanical interfaces scheme

3. Electrical interfaces

3.1. The Dronix DR1200 system has an external power and data board for 3rd party system components.

3.2. The external board is an accessory supplied by Dronix to allows customers to simplify the payload integration and quick power-up

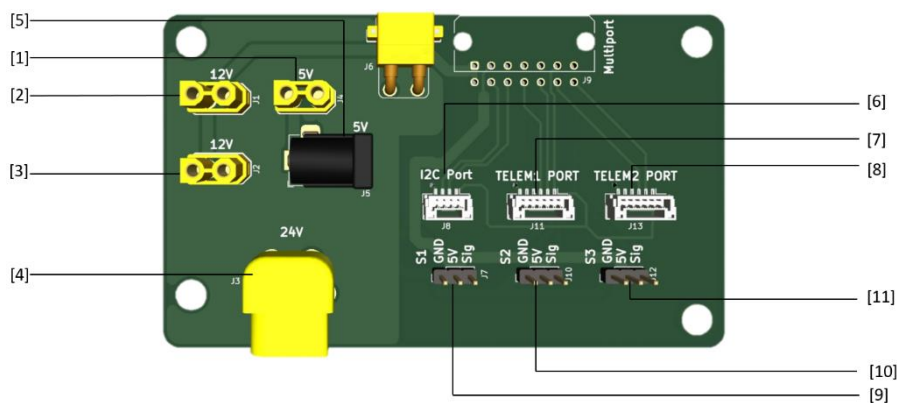


Figure 3: DR1200 external power and data board interfaces scheme

Pin	Output	Type	Description
1	XT30 Female – 5V 5A	Power	Power output for camera/computer/communication/other
2	XT30 Female – 12V 5A #1	Power	Power output for camera/computer/communication/other
3	XT30 Female – 12V 5A #2	Power	Power output for camera/computer/communication/other
4	XT60 Female – 24V 3A	Power	Power output for camera/computer/communication/other
5	5.5 x 2.1 mm female DC Power Connector	Power	Power output for camera/computer/communication/other
6	I2C Port	Data	Flight controller I2C port
7	TELEM1 Port	Data	Flight controller TELEM1 port
8	TELEM2 Port	Data	Flight controller TELEM2 port
9	AUX S1	Data	Flight controller PWM port
10	AUX S2	Data	Flight controller PWM port
11	AUX S3	Data	Flight controller PWM port



Attention – power and data connectors MUST be connected properly. Poor connections can cause system malfunction and may cause damage.

Revision Control

Version	Description
1.0	Created
1.0122	External power and data board