Quick Start Guide

Atlas™
Servotorq™ Integrated Servo Motor
Part No. OVU00247 and Variants

Thank you for purchasing Overview's Atlas Integrated Servo Motor.

To quickly get up and running with your Atlas motor, please refer to the Technical Manual, I²C Protocol Guide and Application Notes located at:

http://www.overview.co.uk/technical-support/

Please observe the following precautions when handling and operating the Atlas motor:

- The Atlas motor uses semiconductors which can be damaged by electrostatic discharge (ESD). The motor must be handled and stored in an ESD safe environment.
- The Atlas motor's nominal supply is 48V DC, using up to 1A DC. Do **NOT** hot-plug the power supply.

Reference Information:

The Atlas I²C control interface uses 12V signalling levels. Please see the Technical Manual for further details and a reference interface circuit.

Beware! When the drive is powered, it will rotate. This is part of the initialisation process and is outlined in the Technical Manual. During this process the drive will draw current up to the maximum rated value.

Warning: If Battery powered the drive will require Surge, In-Rush Current, Reverse Polarity and Overvoltage Protection.
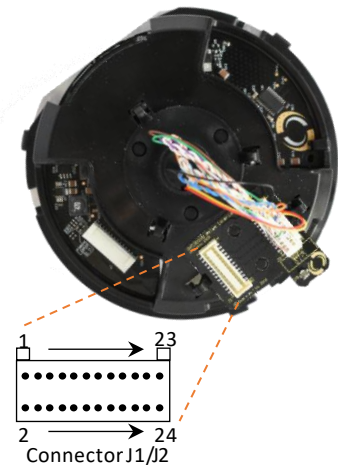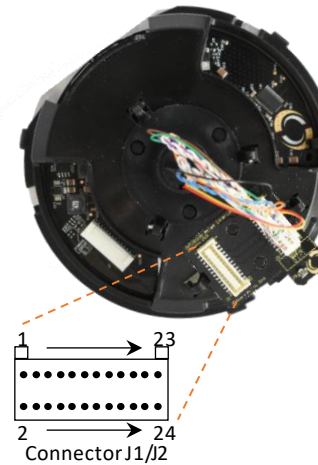
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Atlas motor pinout reference (please see the Technical Manual for further details):

- Connector type: JST ZPD 24-way.
- Mating housing part: ZPDR-24V-S (JST)
- Pre-crimped leads: SZPD-002T-P0.3 (JST)

Connectors J1/J2				
Pin	**Signal**	**Pin**	**Signal**	
1	48V$_{in}$	2	GND	
3	48V$_{in}$	4	GND	
5	48V$_{in}$	6	GND	
7	PASS THROUGH PAIR 1+	8	PASS THROUGH PAIR 4+	
9	PASS THROUGH PAIR 1-	10	PASS THROUGH PAIR 4-	
11	PASS THROUGH PAIR 2+	12	PASS THROUGH PAIR 5+	
13	PASS THROUGH PAIR 2-	14	PASS THROUGH PAIR 5-	
15	PASS THROUGH PAIR 3+	16	I²C SDA	
17	PASS THROUGH PAIR 3-	18	I²C SCL	
19	PASS THROUGH AUX 1	20	I²C ADDRESS SELECT (Not available via slip-ring)	
21	PASS THROUGH AUX 2	22	NO-CONNECT	
23	NO-CONNECT	24	EARTH (SPINDLE CONNECTION)	

Note: I²C Address Select to be connected to GND for address 0x29, open for 0x28 (7-bit address). This is only available on the connectors on the large circular motor PCBA; this signal is not passed through the slip-ring supplied.

All ZPD connectors have the same pinout (on both PCBAs).

Connector J1/J2