



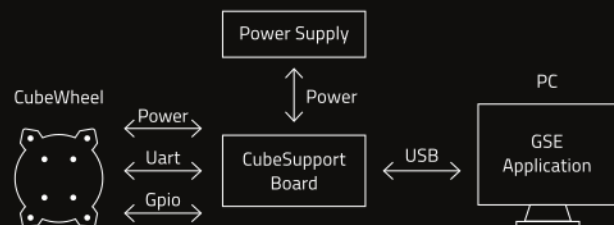
Customized **ADCS** Solutions

REACTION WHEELS



All **CubeWheels** are built using Aerospace class materials, vacuum rated bearings, and have their flywheels balanced using state-of-the-art equipment. A cubeWheel is delivered with GSE equipment that enables the user to easily connect the device to a PC and test all the functionality of the wheel through a simple-to-use GUI interface. The application also provides the user with the ability to set configuration parameters, periodically collect data from the wheels, graphing, and logging features.

www.cubespace.co.za



REACTION WHEELS



CubeWheel **S**

CubeWheel **S⁺**

CubeWheel **M**

CubeWheel **L**



PHYSICAL

Mass	60g	90g	150g	225g
Dimensions	28x28x26.2mm	33.4x33.4x31mm	46x46x31.5mm	57x57x31.5mm
Operating Temperature	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
Vibration	14g RMS	8.9g RMS	8.9g RMS	8.9g RMS
Radiation	24kRad	24kRad	24kRad	24kRad



ELECTRICAL

Supply Voltage	3V3 & 6.4-16V	3V3 & 6.4-16V	3V3 & 6.4-16V	3V3 & 6.4-16V
Average Power (2000rpm)	150mW	190mW	190mW	350mW
Peak Power	0.65W	2.3W	2.3W	4.5W
Communications	12C/UART/CAN	12C/UART/CAN	12C/UART/CAN	12C/UART/CAN



PERFORMANCE

Speed Range	±8000	±6000	±6000	±6000
Momentum @ Max Speed	1.77mNms	3.6mNms	10.82mNms	30.61mNms
Max Torque	0.23mNm	2.3mNm	1mNm	2.3mNm
Static Imbalance	< 0.003 g·cm	< 0.004 g·cm	< 0.004 g·cm	< 0.006 g·cm
Dynamic Imbalance	< 0.005 g·cm ²	< 0.014 g·cm ²	< 0.014 g·cm ²	< 0.05 g·cm ²



ORDER INFO

Lead Time				
Single Unit	3 Months	3 Months	3 Months	3 Months
Bulk	Contact for information			
Price				
Single Unit	4 500 USD	5 800 USD	6 500 USD	7 500 USD
Bulk	Contact for pricing			