



SPACEWHEEL

REACTION WHEEL FOR CUBESATS

BY TAKEME2SPACE

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Reaction Wheels



Exploded view of the reaction wheel

Description:

The TakeMe2Space Reaction Wheels serve as a vital part of the satellite's Attitude Determination and Control System (ADCS), enabling dependable and high-precision orientation management essential for mission success.

Engineered for robust in-orbit performance, the RW-Medium model delivers a nominal momentum of 30 mNms and maximum torque of 75 mNm, supporting fine control accuracy of ± 1 RPM at speeds above 100 RPM.



Technical Specifications:

Category	Parameter	RW-Medium
Performance	Momentum (nominal)	30 mNms
	Torque	75 mNm
	Control accuracy	± 1 RPM @ >100 RPM
Interface	Control mode	Speed or Torque
	Command/Telemetry	RS-485, CAN
	Connector type	16 Pin Harwin connector
Mechanical	Dimensions	55 x 55 x 40mm
	Mass	280 g
	Balancing	Residual unbalance <0.1 g.mm after balancing to G0.4 grade
Electrical	Supply voltage	24V (nominal)
	Power draw at max RPM	12 W
	Maximum RPM	6500
	Power at zero momentum	0 W
Environment	Thermal	-40°C to +100°C (operating)
	Vibration & shock	Tested for 14 gRMS random, 70g shock in all axes