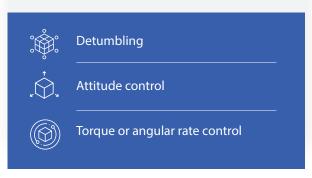
## RW180

# Reaction Wheels 180

for Nanosatellites

Designed for demanding missions, providing an 8 years lifetime duration. Fully characterized and qualified according to the European Cooperation for Space Standardization (ECSS).













#### Main benefits

- ✓ Plug & play concept
- ✓ Embeded electronic
- Robust technology (stainless steal bearings)
- ✓ Compact design & accommodation
- Embedded and protected electronics

#### Kéy features

#### **Torque**

20 mNm mean

#### **Kinetic moment**

180 mN.ms

#### **Accuracy**

Down to 2 rpm

#### **Supply Voltage**

14 V [10 V; 18 V]

#### **Data Interface**

RS 485 full duplex

#### **Mechanical interface**

Size:

1 RW = Ø 82 x 44.8mm, ie

Mass:

1 RW = < 550g

(electronic and radiation protection included)

#### Life time

More than 100,000 zero crossing tests 8 years of operation

#### Thermal Qualification

-30°C/ +50 °C

### Mechanical Qualification environment

Random: 20.8 grms Shock: 1,000 g/2,000 Hz

#### **Radiation**

<20 Krad at electronic board level

#### **Protocol**

NSP communication Protocol

#### **Acceptance Test**

µvib | Vibration | Thermal cycling | Performance





# REACTION & WHEELS O



