

CFI-100IC

High Performance IMU

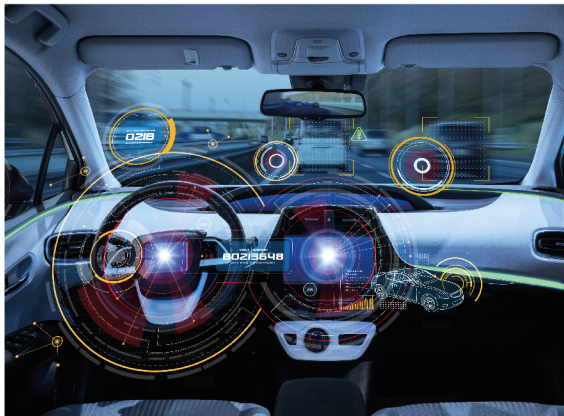


ACCURACY AT WORK

DYNAMIC STABILISATION & REFERENCING

ACCURACY AT WORK

FOR DYNAMIC REFERENCE AND PRECISE STABILIZATION



The **CFI-100IC** is a high performance IMU based on the **CFA-100IC** platform.

It has been optimised to be used as an inertial measurement unit with synchronisation to GNSS.

Applications include a reference unit for dynamic measurements, such as automotive testing when no GNSS available. AHRS or INS capability can be included.

SYSTEM PERFORMANCE

Sensor Performance (1 σ)	Gyroscopes	Accelerometers
Bias Stability (in-run)	0.005 °/hr	<2ug
Bias Repeatability (run-to-run)	0.015 °/hr	100ug
ARW/VRW	<0.0025 °/ $\sqrt{\text{hr}}$	5ug °/ $\sqrt{\text{hr}}$
Scale Factor Linearity	10ppm	25ppm
Misalignment	<0.1mrad	<0.1mrad

PHYSICAL CHARACTERISTICS

Environmental conditions

Operational Temp: -25°C to +55°C (opt +70°C)
Storage Temp: -40°C to +85°C
Vibration: DO-160G Sec8, CatS 0.74grms
Shock Survival: DO-160G Sec 7, Cat B, 20g 11ms
Environment: IP66

Power

18 W @ 24V DC (18V – 32V)

Dimensions

Width: 106 mm
Height: 132 mm
Length: 225 mm
Weight: 4 Kg

Interface

Serial RS422
PPS sync