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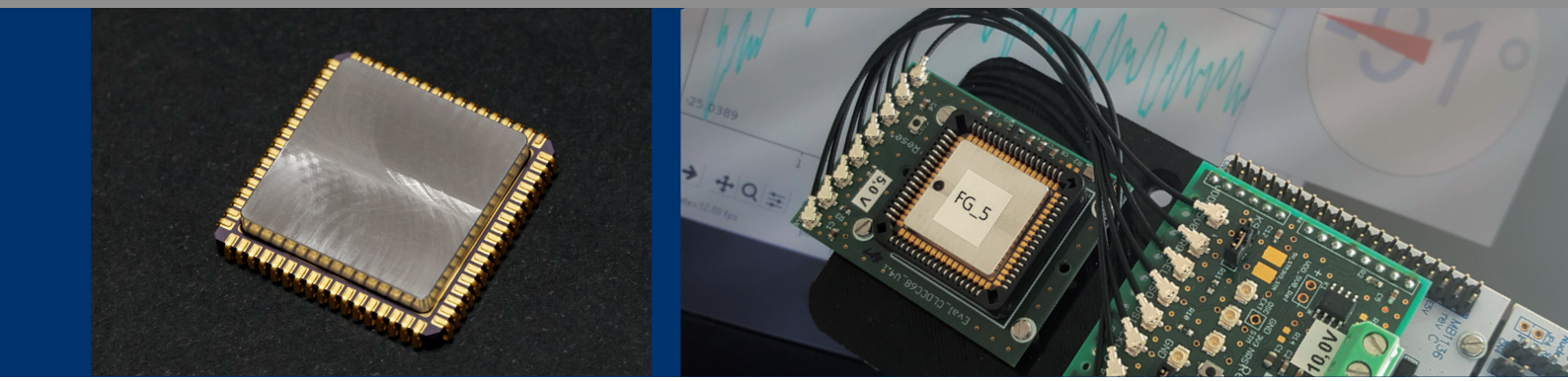

GYROSCOPE SENSOR FG5

Fraunhofer ENAS is part of

Forschungsfabrik Mikroelektronik
Deutschland

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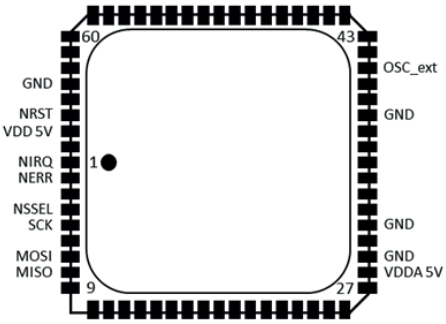
In cooperation with

ZfM Zentrum für Mikrotechnologien
TECHNISCHE UNIVERSITÄT CHEMNITZ

Features

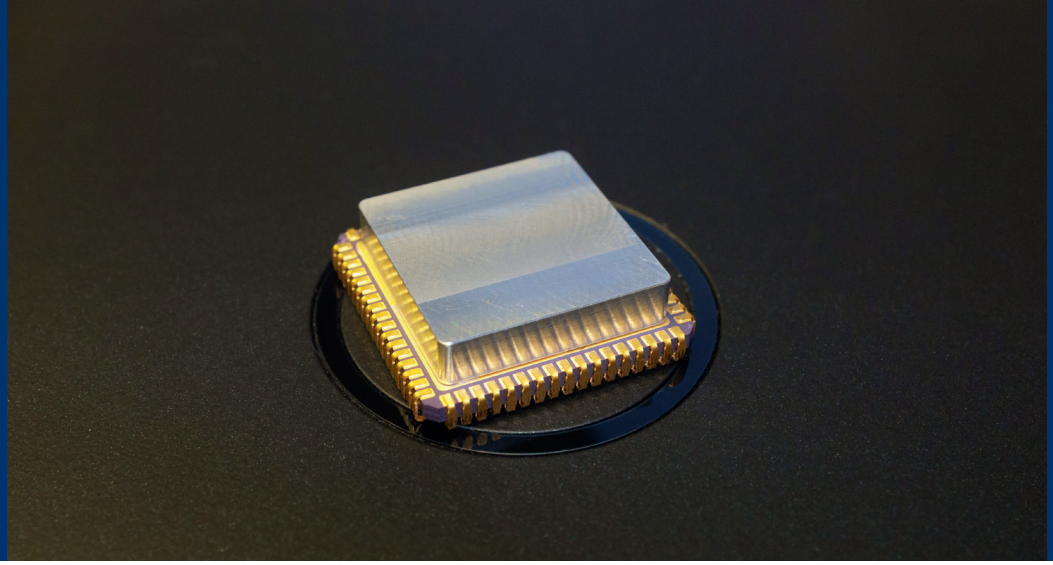
- Digital angular velocity sensor with SPI interface
- Sensitive on angular rates about the z-axis (yaw)
- ± 450 °/s input range
- Resolution is 5 °/h = 14 mdps (milli degree per seconds)
- Operating temperature range from -40 °C to 85 °C
- Stable external supply voltage of 5 V required



Package dimensions:
Package CLDCC68 (20 x 20 x 5 mm³)

Pin description

Pin#	Name	Remark
1	NIRQ	SPI
2	NERR	SPI
4	NSSEL	SPI
5	SCK	SPI
7	MOSI	SPI
8	MISO	SPI
28	VDDA_5V	5V power supply - analog
29	GND	0 V supply
31	GND	0 V supply
38	GND	0 V supply
41	OSC_ext	External 32 MHz Oscillator
64	GND	0 V supply
66	NRST	System reset if set to GND
67	VDD_5V	5V power supply - digital



Electrical characteristics

Parameter	Remark	Min	Typ	Max	Unit
Supply VDDA/ VDD		4.95	5	5.05	V
Current consumption (I_VDDA_VDD)[1]			30		mA
Interface	SPI		0 / 3.3		V
Operating Temperature		-40	25	+85	°C
Measurement Range		0.0014		450	°/s
Bandwidth				120	Hz
Output Rate			2000		Hz
Resolution	ENOB		20		Bit

[1] without communication master (e.g. FTDI)

Allan deviation

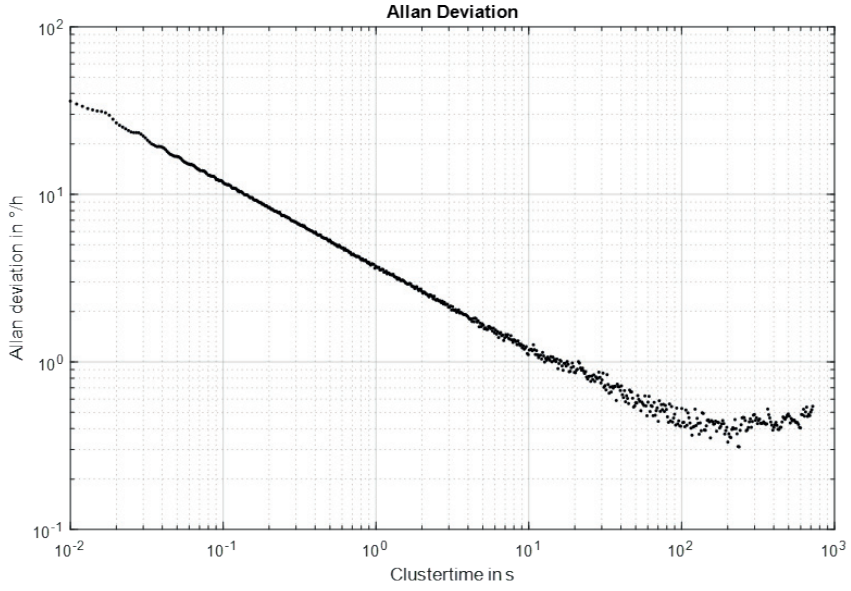


Photo acknowledgments:
Fraunhofer ENAS
All information contained in this datasheet is preliminary and subject to change. Furthermore, the described system is not a commercial product.