



Application brief

Infineon's full system solutions for multicopters

Infineon brings ready-to-use multicopter solutions to a high-potential emerging market. By providing an excellent experience and offering cost effective and complete system solutions, Infineon is consequently working on meeting the requirements of the end user such as lighter weight, longer flying time, safety, reliability, etc.

In Infineon's comprehensive portfolio of high quality products customers can find the widest spectrum of multicopter components on the market. With XMC-controllers, iMOTION™ motor control, magnetic sensors, and many more of Infineon's cutting-edge technologies, customers achieve a higher degree of innovation and differentiation.

Key enabling products

- > Low voltage power MOSFETs – OptiMOS™ and StrongIRFET™
- > High voltage power MOSFETs – CoolMOS™
- > Dual n-channel MOSFETs
- > Gate driver ICs
- > Microcontrollers – XMC™
- > iMOTION™ IRMCK099 motor control IC
- > Magnetic sensors and voltage regulators
- > Pressure sensor and 24 GHz radar sensor
- > OPTIGA™ embedded security solutions and authentication

To shorten customer development cycle time and cost we offer a wide range of application kits:

Microcontrollers			24 GHz radar sensor
XMC1000 motor control application kit	XMC4000 motor control application kit	iMOTION™ modular application design kit (EVAL-M1-099M)	DEMO DISTANCE2GO
DPS310 Pressure sensor			
Infineon sensor hub nano EVAL SHNBV01 Sensor hub nano	Infineon wireless sensor hub 2.0 KIT DPS310 2G SHV02	Schuttle boards EVAL SHSBV01-I2C and EVAL SHSBV01-SPI	S2GO PRESSURE DPS310

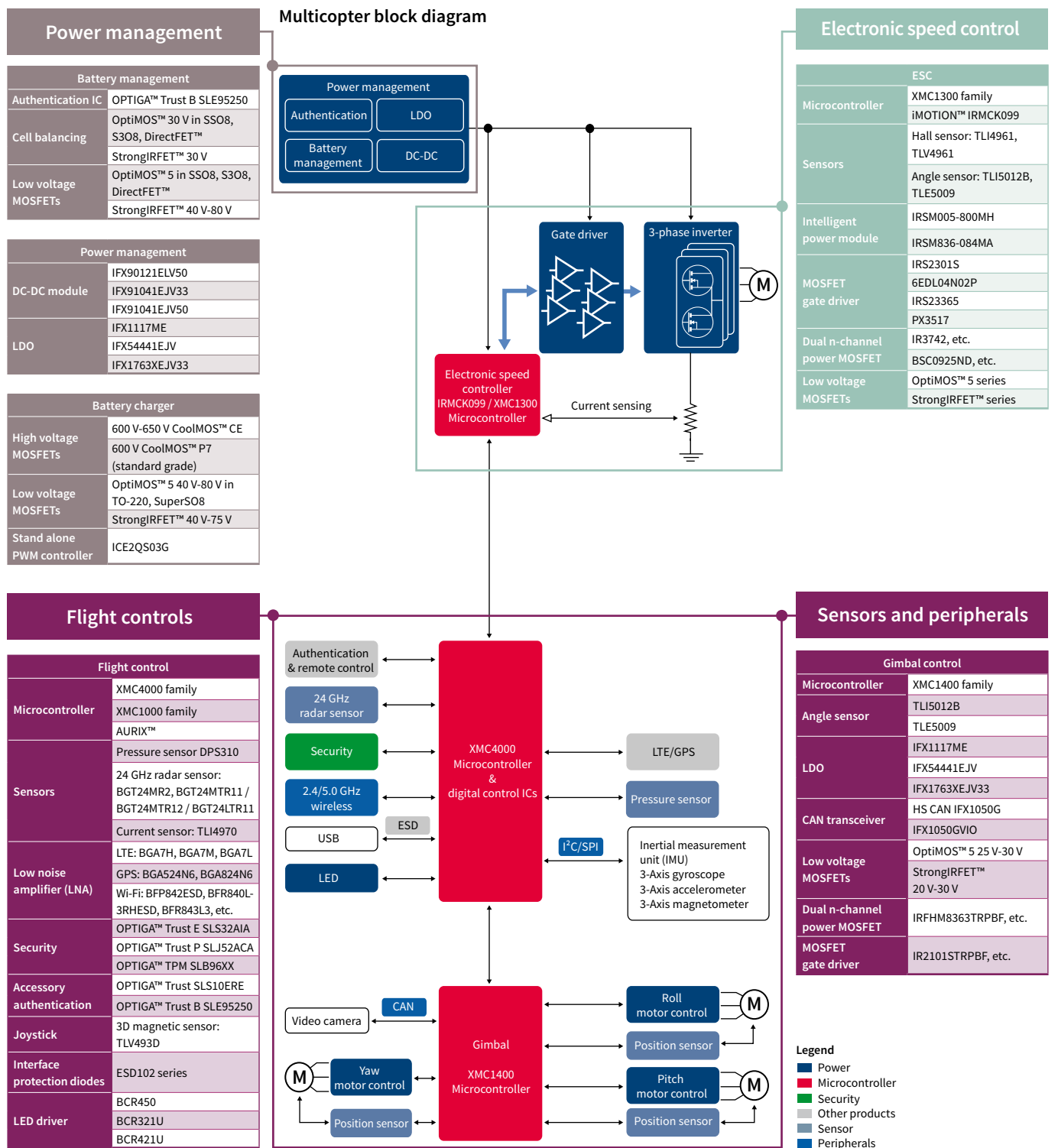
Key benefits

- > Authentication with OPTIGA™ onboard
- > Accuracy & easy control through the benefits of multifunction sensors
- > Closed loop control of gimbal motor and sensors
- > High resolution pressure sensor for altitude stabilization
- > Collision avoidance through 24 GHz radar sensor
- > One-stop-shop portfolio
- > Increased lifetime due to Infineon's reliability and quality
- > Fast time-to-market due to complete eco-system: simulations, documentation and demoboard solutions

Further information

- > www.infineon.com/multicopter
- > www.infineon.com/mosfet
- > www.infineon.com/xmc
- > www.infineon.com/gdfinder
- > www.infineon.com/imotion
- > www.infineon.com/optiga
- > www.infineon.com/sensors
- > www.infineon.com/24GHz





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Additional information

For further information on technologies, our products, the application of our products, delivery terms and conditions and/or prices, please contact your nearest Infineon Technologies office (www.infineon.com).

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