

OM13078,598: LPC54102 Sensor Processing/Motion Solution


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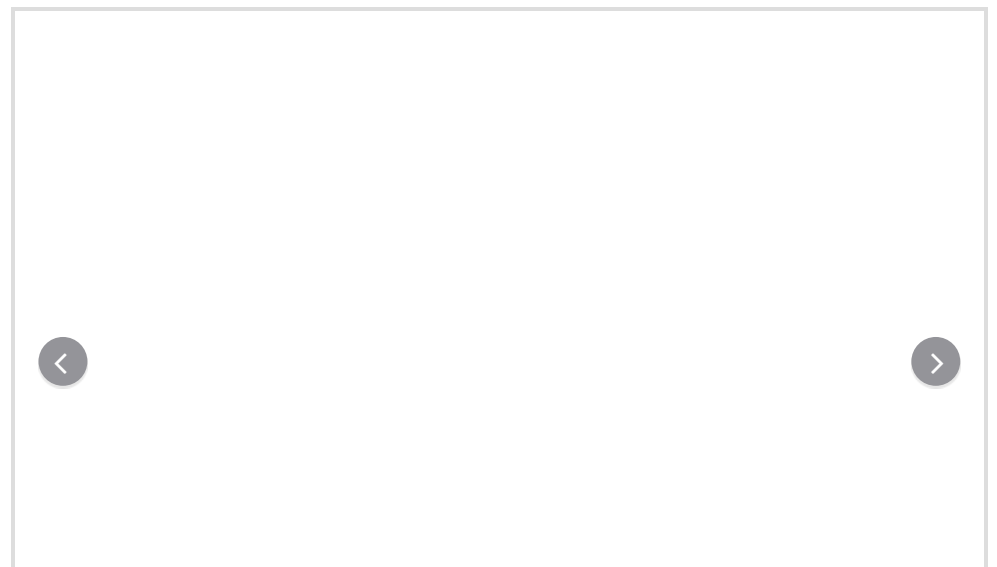
Overview

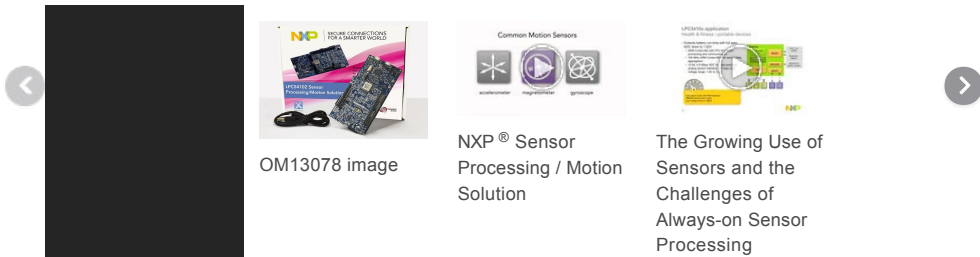
The LPC54102 Sensor Processing/Motion Solution has been developed by NXP® and its partners to provide all that you need to develop an always-on sensor processing product. The Solution combines an LPC54102 board and a Sensor Shield Board (SSB), plus application software and sensor fusion software from Bosch Sensortec to provide a highly capable platform for always-on sensor processing.

The order code for this solution is **OM13078**.

Features

- LPC54102 MCU in an LQFP64 package
- Built-in Link2 high-speed USB based debug probe and option for an external debug probe
- Tri-color LED, target Reset, ISP and WAKE buttons
- On-board regulators for 1.8 V or 3.3 V supply or external power supply options
- Built-in MCU power consumption, sensor board and supply voltage measurement
- UART, I²C and SPI port bridging from LPC54102 target to USB via Link2 device
- Sensor Shield Board Bosch Sensortec sensors: BMI055 inertial measurement unit
BMC150 digital compass, BMM150 magnetometer and BMP280 pressure/temperature sensor
- Murata ZPA2326 pressure sensor
- MAX44000 ambient light and proximity sensor

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Kit Contains

- LPC54102 Development Board
- Sensor Shield Board
- Micro USB cable

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