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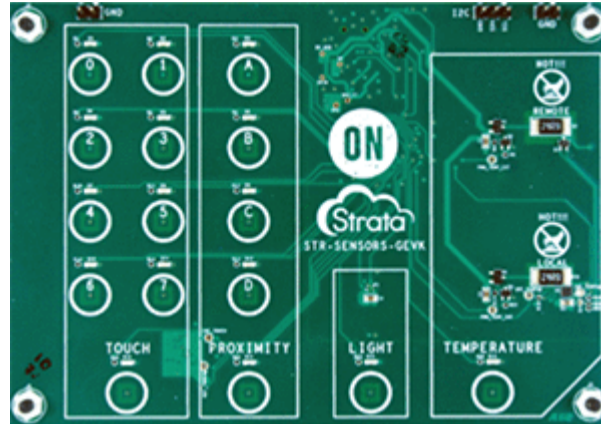


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STR-SENSORS-GEVK: Strata Enabled Multi-Sensor Board

The STR-SENSORS-GEVK provides an evaluation board for LC717A10AR 16 input touch and proximity sensor, LV0104CS ambient light sensor, and NCT72 local and remote temperature sensor. This evaluation board is used with Strata to control different sensors and monitor telemetry such as gain and threshold settings. See the Strata webpage at www.onsemi.com/strata for more details!

[Click to Download Strata](#)

Features and Applications

Features

- Touch and Proximity:
 - Detection system: Differential capacitance detection (Mutual capacitance type)
 - Input capacitance resolution: Can detect capacitance changes in the femto Farad order
 - Measurement interval (16 differential inputs): 30ms (Typ) (at initial configuration), 6ms (Typ) (at minimum interval configuration)
 - External components for measurement: Not required
 - Interface: I2C compatible bus or SPI selectable
 - Current consumption: 570 μ A (Typ) (VDD = 2.8 V), 1.3 mA (Typ) (VDD = 5.5 V)
 - Supply voltage: 2.6 V to 5.5 V
 - Detection operations: Switch
- Light:
 - Smallest OD-CSP package in the world (1.08mm x 1.08mm thickness: 0.6mm)
 - Superior spectrum sensitivity characteristics
 - 16-bit digital output for CODEC by I2C serial bus
- Temperature:
 - On-Chip and Remote Temperature Sensor
 - 0.25°C Resolution/1°C Accuracy on Remote Channel
 - 1°C Resolution/1°C Accuracy on Local Channel
 - Series Resistance Cancellation up to 1.5 k Ω
 - Extended, Switchable Temperature Measurement Range 0°C to +127°C (Default) or -64°C to +191°C
 - Pin and Register Compatible with NCT1008
 - Remote /THERM limit of 108°C
 - 2-Wire SMBus/I2C Serial Interface with SMBus Alert Support
 - Programmable Over/Under temperature Limits
 - Offset Registers for System Calibration
 - Up to Two Over temperature Fail-Safe /THERM Outputs
 - 240 μ A Operating Current, 5 μ A Standby Current
 - Compatible with 1.8 V Logic

Applications

- Touch and Proximity:
 - White goods
 - Black goods
 - PC peripherals
 - Office Automation
- Light:
 - Ambient Light Sensor
- Temperature:
 - Thermal Management

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
STR-SENSORS-GEVK	Active	Pb-free	Strata Enabled Multi-Sensor Board	LC717A10AR-NH, LV0104CS-TLM-H, NCT72CMTR2G	Contact Local Sales Office Inventory

Technical Documents

<https://www.onsemi.com/support/evaluation-board/str-sensors-gevk>

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Featured Video

[Strata-Enabled, Cloud-Connected Multi-Sensor Board](#)[More Videos ...](#)

Type	Document Title	Document ID/Size	Rev
Software	Strata Setup Software for Microsoft Windows	Strata setup Windows - 87664 KB 	2.4.0
Eval Board: Manual	STR-SENSORS-GEVK User Guide	STR-SENSORS-GEVK_USER_GUIDE - 1073 KB	0
Eval Board: Test Procedure	STR-SENSORS-GEVK Test Procedure	STR-SENSORS-GEVK_TEST_PROCEDURE - 596 KB	0
Eval Board: Schematic	STR-SENSORS-GEVK Schematic	STR-SENSORS-GEVK_SCHEMATIC - 964 KB	0
Eval Board: Gerber	STR-SENSORS-GEVK Gerber Layout Files (Zip Format)	STR-SENSORS-GEVK_GERBER - 3370 KB	0
Eval Board: BOM	STR-SENSORS-GEVK Bill of Materials (ROHS Compliant)	STR-SENSORS-GEVK_BOM_ROHS - 259 KB	0
Video	Strata-Enabled, Cloud-Connected Multi-Sensor Board	WVD17474/D	

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