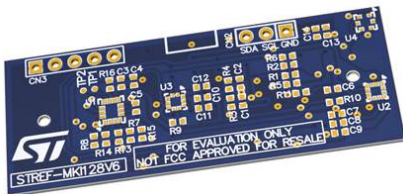


Smart MEMS Multi-sensor module



Features

- The board integrates:
 - iNEMO inertial module [LSM6DSM](#)
 - Magnetometer [LIS2MDL](#)
 - Pressure sensor [LPS22HB](#)
- Relative Humidity and temperature sensor [HTS221](#)
- WEEE compliant
- RoHS compliant

Description

The enhanced embedded sensor topology of the [STREF-MKI128V6](#) MEMS sensor module helps you save development time and effort for your applications. This compact board integrates the iNEMO inertial module ([LSM6DSM](#)) with 3D accelerometer and 3D gyroscope that is particularly suitable for smartphones with OIS/ EIS and AR/VR systems, a magnetometer ([LIS2MDL](#)), a dust-resistant full-mold absolute pressure sensor ([LPS22HB](#)), and a relative humidity and temperature sensor ([HTS221](#)).

Product summary	
iNEMO 6DoF inertial module, for smart phones with OIS / EIS and AR/VR systems. Ultra-low power, high accuracy and stability	LSM6DSM
Magnetic sensor, digital output, 50 gauss magnetic field dynamic range, ultra-low power high performance 3-axis magnetometer	LIS2MDL
Magnetic sensor, digital output, 50 gauss magnetic field dynamic range, ultra-low power high performance 3-axis magnetometer	LPS22HB
Capacitive digital sensor for relative humidity and temperature	HTS221
Smart MEMS Multi-sensor module	STREF-MKI128V6

1 Schematic diagram

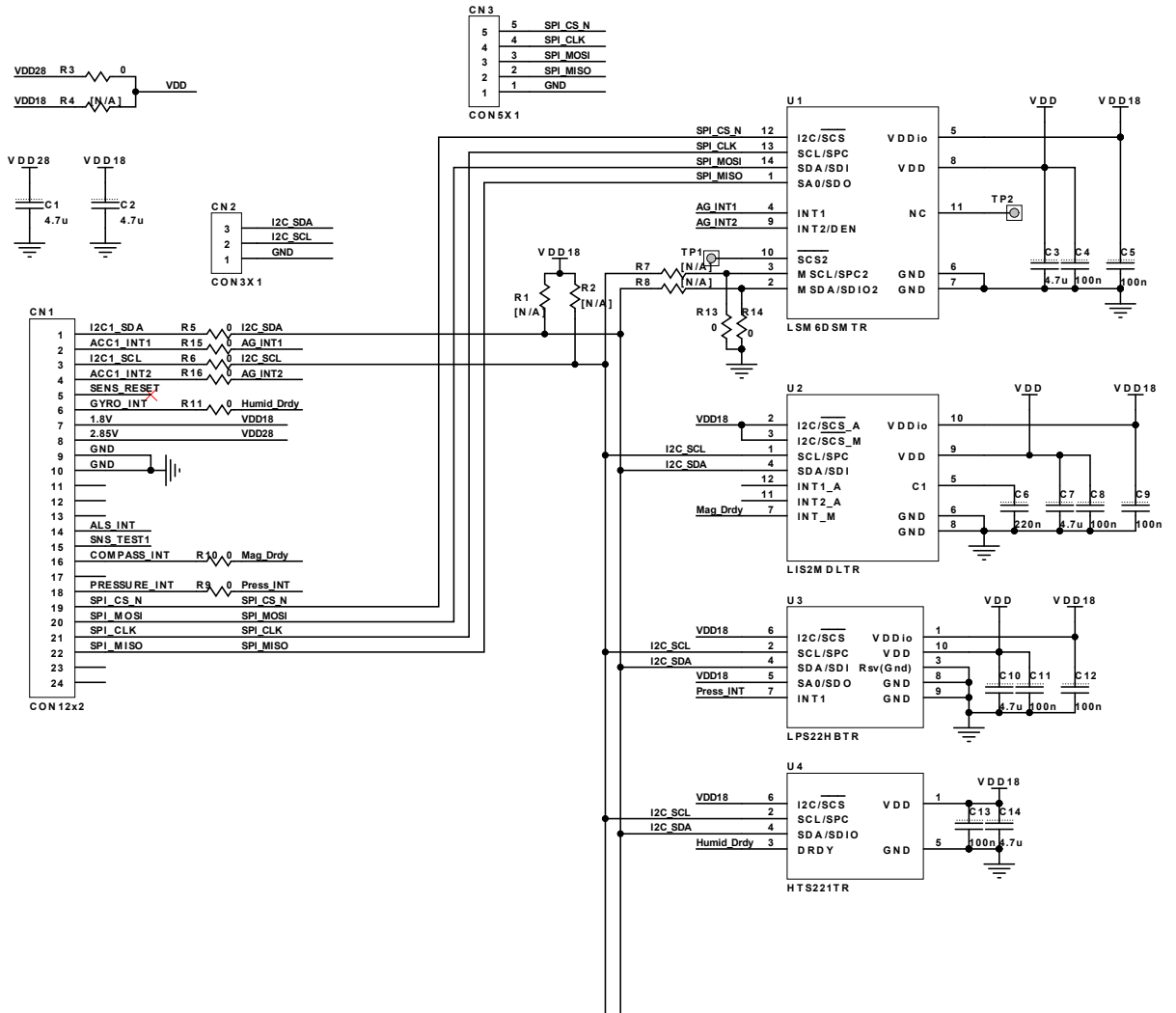
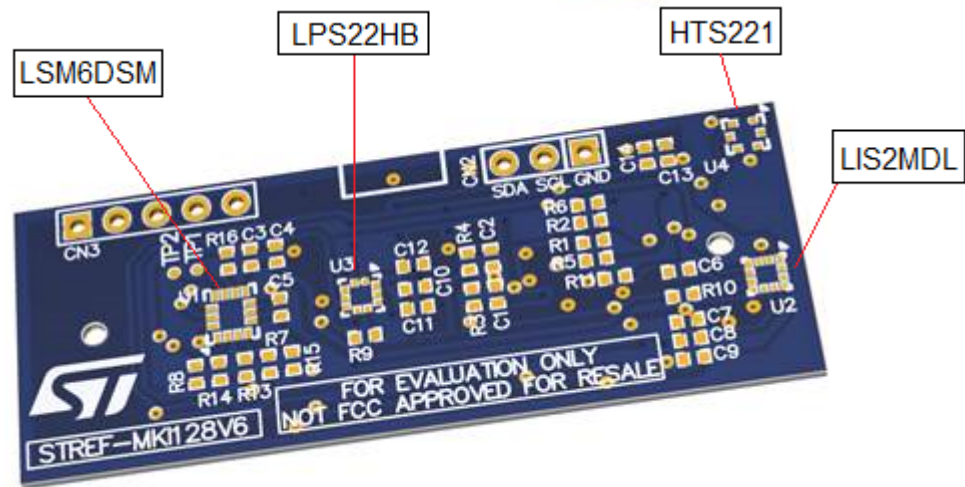
Figure 1. STREF-MKI128V6 circuit schematic


Figure 2. STREF-MKI128V6 - board detail



Revision history

Table 1. Document revision history

Date	Version	Changes
27-Jun-2018	1	Initial release.

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