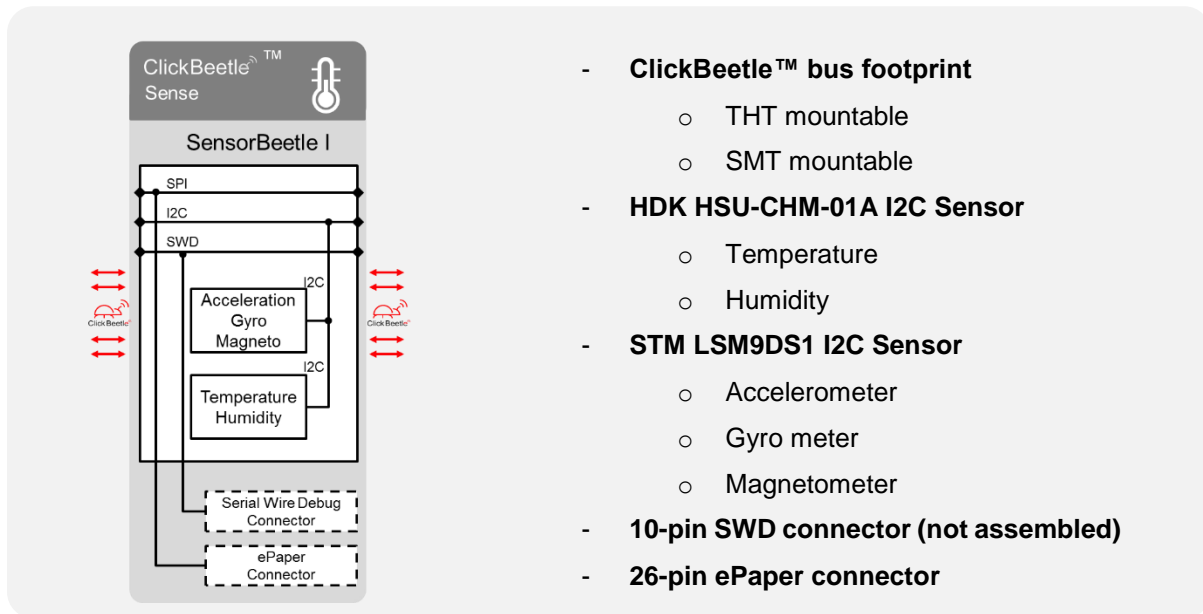


## FEEU ClickBeetle<sup>®</sup> - Reference Platform: SensorBeetle I

SensorBeetle I is part of the ClickBeetle Reference Platform and adds a sensing features with 9DOF sensor and humidity/temperature sensor to the application. SensorBeetle I contains a STM sensor and a HDK sensor.



### HDK HSU-CHM-01A I2C Sensor:

- Small size, low profile package dimension 2.0×2.0×0.75 mm
- Low voltage (1.17 – 5.5V)
- High sensitivity
- Low current consumption
- Anti-dew condensation, Water-proof

### STM LSM9DS1 I2C Sensor:

- 3 acceleration channels, 3 angular rate channels, 3 magnetic field channels
- $\pm 2/\pm 4/\pm 8g$  linear acceleration full scale
- $\pm 4/\pm 8/\pm 12/\pm 16$  gauss magnetic full scale
- $\pm 245/\pm 500/\pm 2000dps$  angular rate full scale
- 16-bit data output
- SPI / I2C serial interfaces
- Programmable interrupt generators
- Analog supply voltage 1.9V to 3.6V
- "Always-on" eco power mode down to 1.9mA
- Embedded temperature sensor
- Embedded FIFO
- Position and motion detection functions
- Click/double-click recognition
- Intelligent power saving for handheld devices

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