Power Consumption Specification

The graph below shows the power consumption for various sensor module's lengths, in active and idle mode. In active mode, the scanning frequency is set to 100 Hz, and one object is presented in active area. In idle mode the scanning frequency is set to 33 Hz, with a clean active area. With higher scanning frequency or more detected objects, the power consumption might slightly higher than the values in the graph. The sensor module will only be in active mode when a touch object is being detected or tracked.

![Power Consumption Graph](image)

From firmware version 1.49 and higher, the sensor module types NNAMC3460PC01 and NNAMC3461PC01 are provided with Extended Range, and their power consumption increases 30% in both USB active mode and USB idle mode. The power consumption for module types shorter than 237 mm is not affected by Extended Range.

Definition

The power consumption is calculated from the current consumption when supplying the sensor module with 5 V.

The current consumption is, in turn, defined as the average current that goes through a sensor module. This is measured from the +5V power pin and reflects how much electric energy that is consumed by the whole sensor module. In real time, the current is not a stable value. Since the Touch Sensor Module has a low power consumption design, the processor and some peripheral circuits will switch to sleep mode during the time between two scan periods, to save power. Therefore, the current is frequently changing during runtime.

According to the different working modes of the Touch Sensor Module, the current consumption value also changes between Active mode and Idle mode.

More Specifications

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