

ML620Q504 Data Logger Demonstration



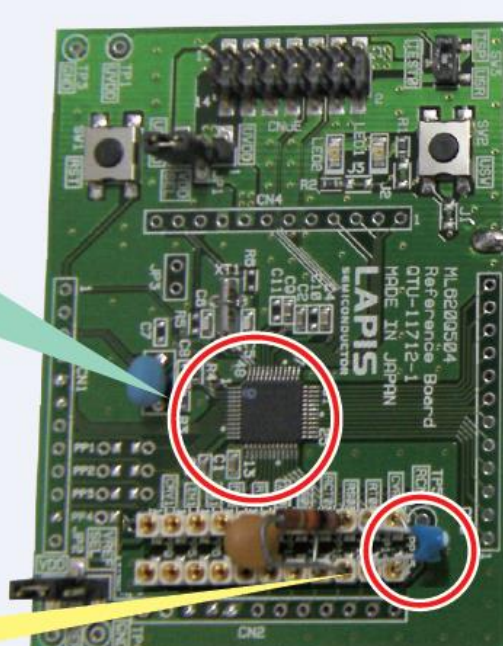
Thanks to low Halt current (450nA), **ML620Q504** enables long battery life

- ▶ High accuracy temperature measurement by using RC-ADC.
- ▶ Measured data is stored in the built-in flash memory.
- ▶ Then all data is transferred to the NFC module through SSIO.
- ▶ Low Halt current (450nA) enables long battery life.

ML620Q504 includes

- RC-ADC
- Flash Memory (2KB)
- SSIO

Thermistor

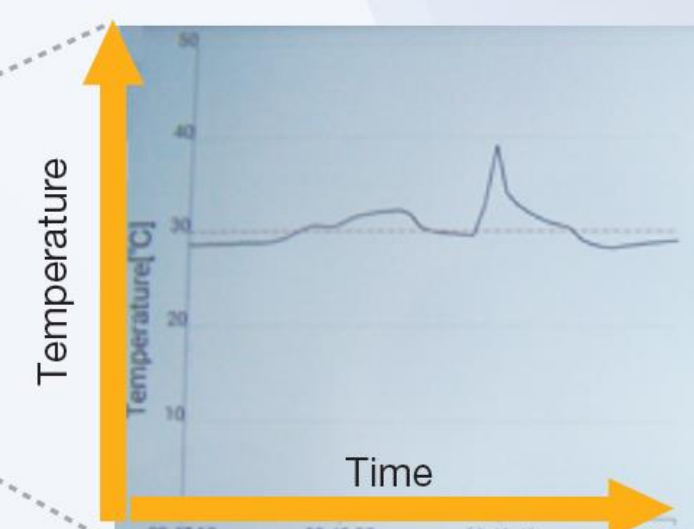


NFC Module

NFC

<Application example>

In order to manage the quality, a logger measures temperature many times during distributing products (ex. Vegetables) and stores its data.



The measurement data in the flash memory is transferred to the smartphone through NFC. Then it is displayed on smartphone as temperature vs time graph.

The multiple power-down modes enable low power consumption.

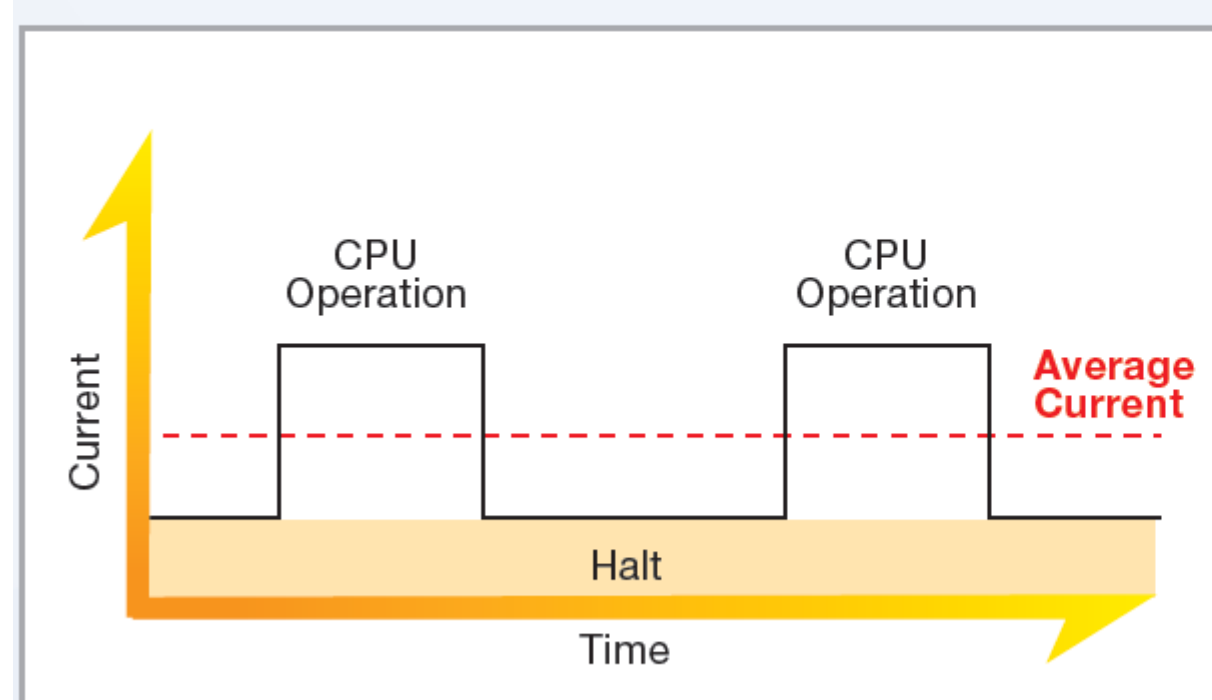
[Multiple power-down modes]

With the optimal combination of the power-down modes, reduces power consumption caused by high-speed operation.

(Reference) Stand-By current

- Conventional 8-bit microcontrollers : 500nA
- ML620Q504 microcontroller : 450nA

Conventional 8-bit microcontrollers



ML620Q504 microcontroller

