

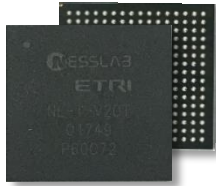
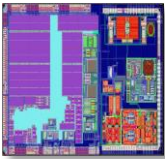
NL-I-V20T :

NB-IoT (LTE Cat. NB1) UE SoC integrated with temperature sensor

Features

- Single chip NB-IoT R13 (LTE Cat.NB1) SoC with an embedded processor
- Ultra low power design based on TSMC 55nm Mixed Signal RF ULP
- Integrated PMU & PLL, Embedded SRAM, ADC/DAC
- 3GPP LTE R-13 NB-IoT protocol stack

Product Description



- MCU: ARM Cortex-M3
- OS: FreeRTOS
- I/O interface: 3 UART, 2 SPI, 3 I2C, GPIO, RTC, WDT, SIM Card I/F
- Band support:
LTE Band 1, 3
LTE Band 5, 8, 12, 13, 17, 19, 20, 26, 28

Products Roadmap

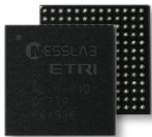
First NB-IoT Baseband SoC
& RFIC



Single chip NB-IoT SoC



IoT Devices



NESSLAB

NL-I-V10

NB-IoT R-13 ('16.9)
Baseband modem SoC
Die Size: 2.97x2.88mm



NESSLAB

NL-I-V20-T

Integrated NB-IoT Baseband & RF
Die Size : 2.917x4.999mm
Chip Size : 14mm X 14mm
CABGA package



2017.5

2017.12