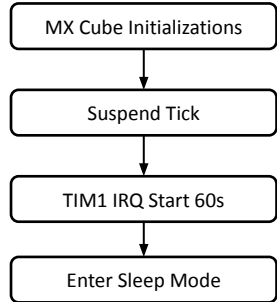
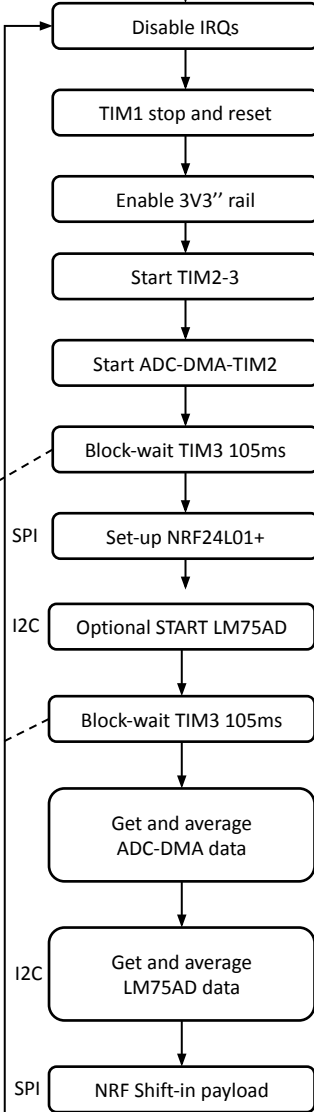


IRQ TIM1 = 60s, TIM2 = 20ms,  
TIM3 = 1ms, SPI, I2C, GPIO



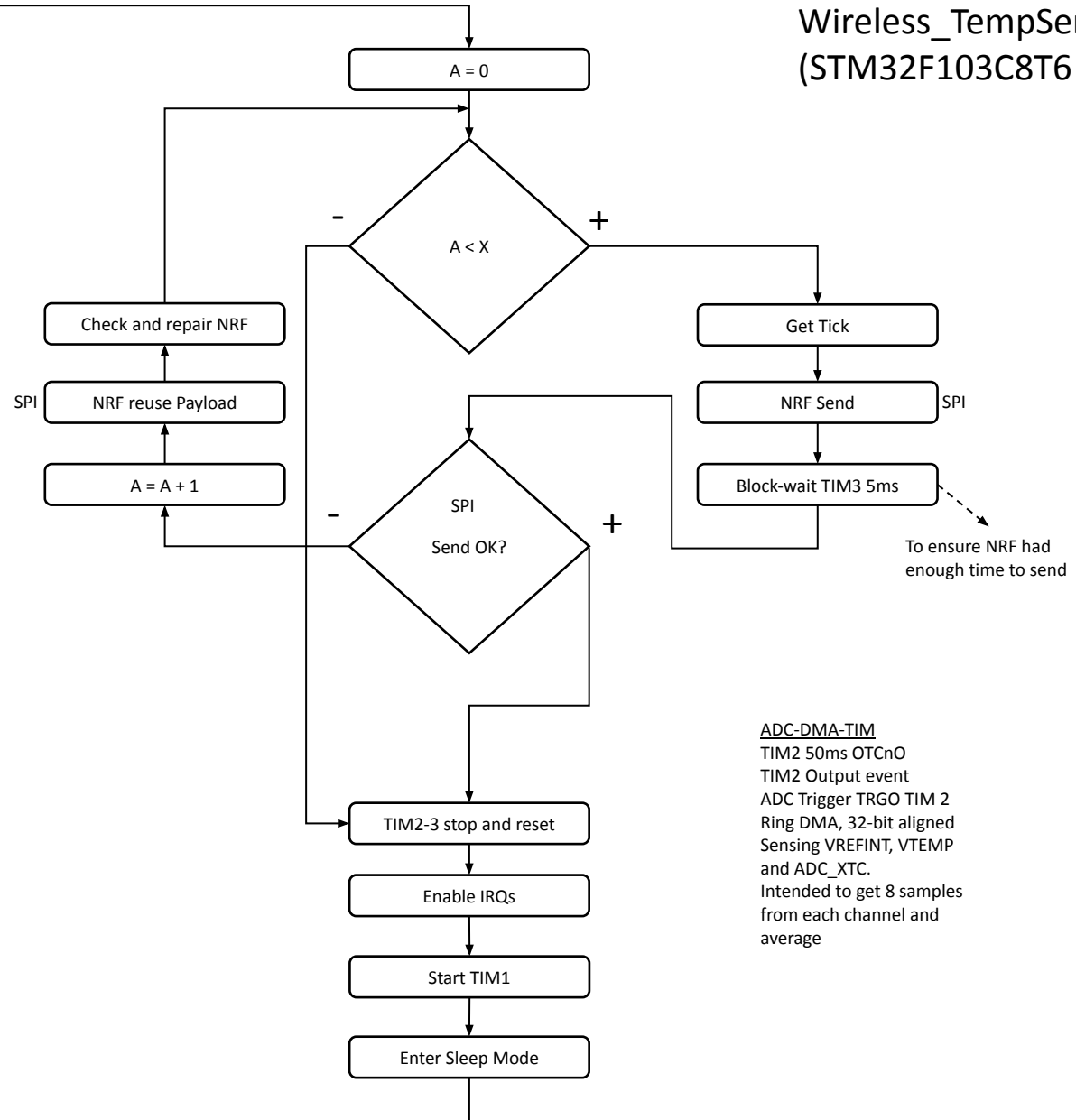
TIM1 IRQ Fired

TIM1 IRQ Fired



To allow NRF24L01+ boot

To allow ADC-DMA-TIM2  
measurements (8x)

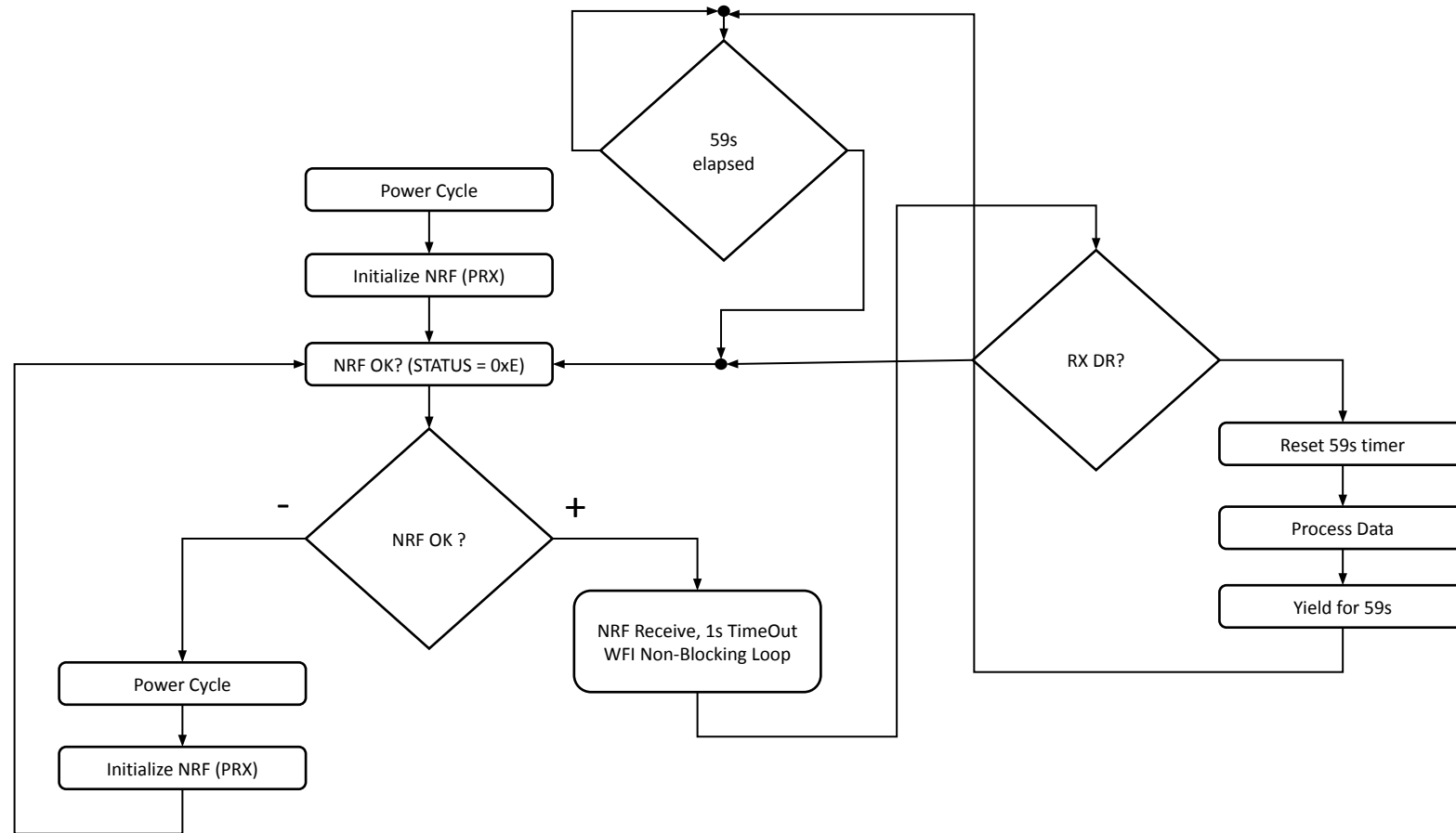


## Wireless\_TempSens (STM32F103C8T6 BluePill)

To ensure NRF had  
enough time to send

ADC-DMA-TIM  
TIM2 50ms OTCnO  
TIM2 Output event  
ADC Trigger TRGO TIM 2  
Ring DMA, 32-bit aligned  
Sensing VREFINT, VTEMP  
and ADC\_XTC.  
Intended to get 8 samples  
from each channel and  
average

# Wireless\_TempSens receiver counterpart (server)



## nRF24L01 Product Specification V2.0

TX max current 0dBm 11.3mA

RX max current 12.3mA

T\_Power\_ramp\_up 100ms

T\_Power\_on\_reset 10.3ms

Vcc = 1.9V to 3.6V

Standby consumption 22uA

Power down consumption 900nA

## LM75A Digital temperature sensor and thermal watchdog

Vcc = 2.8V to 5.5V

Normal mode temperature conversion every 100ms

I2C operational 100uA

I2C operational 1mA