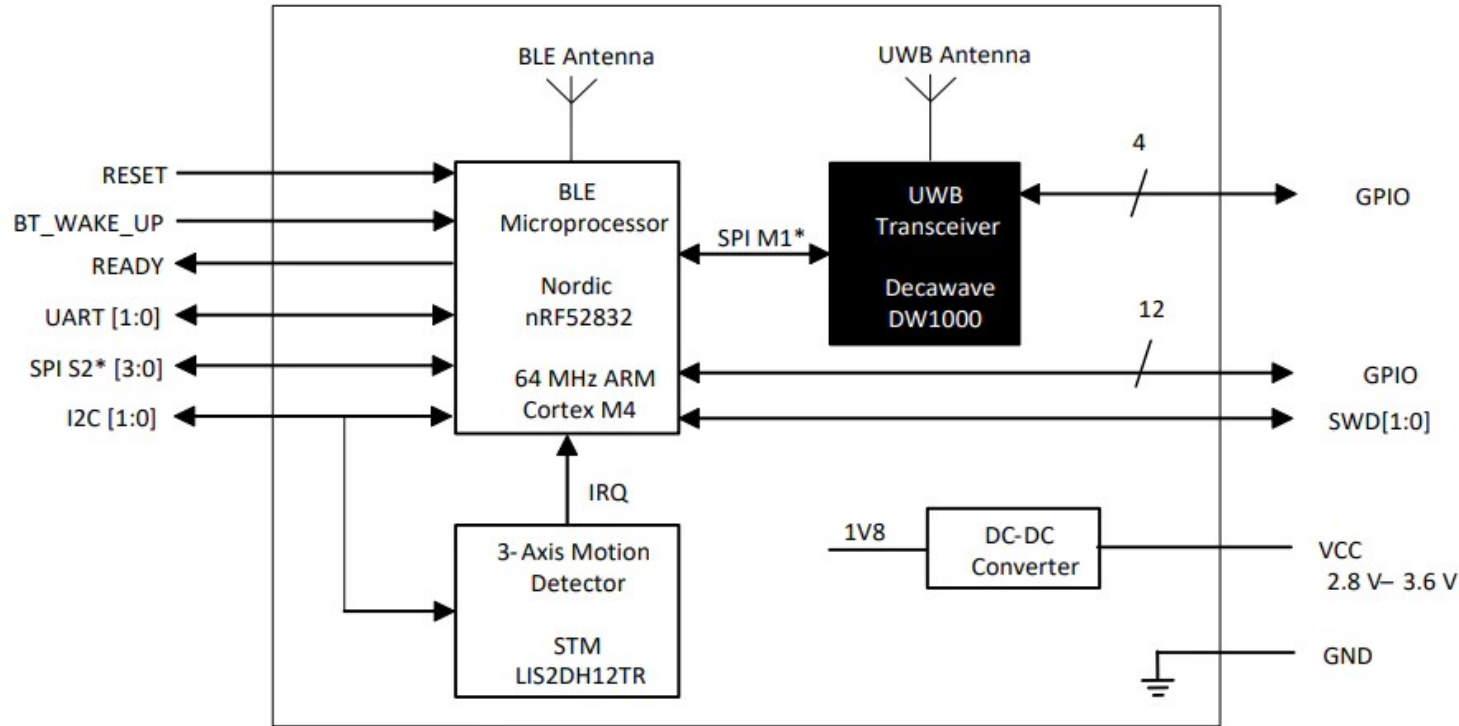


DWM1001 API 개발

2025.4

한국생산기술연구원 신진옥

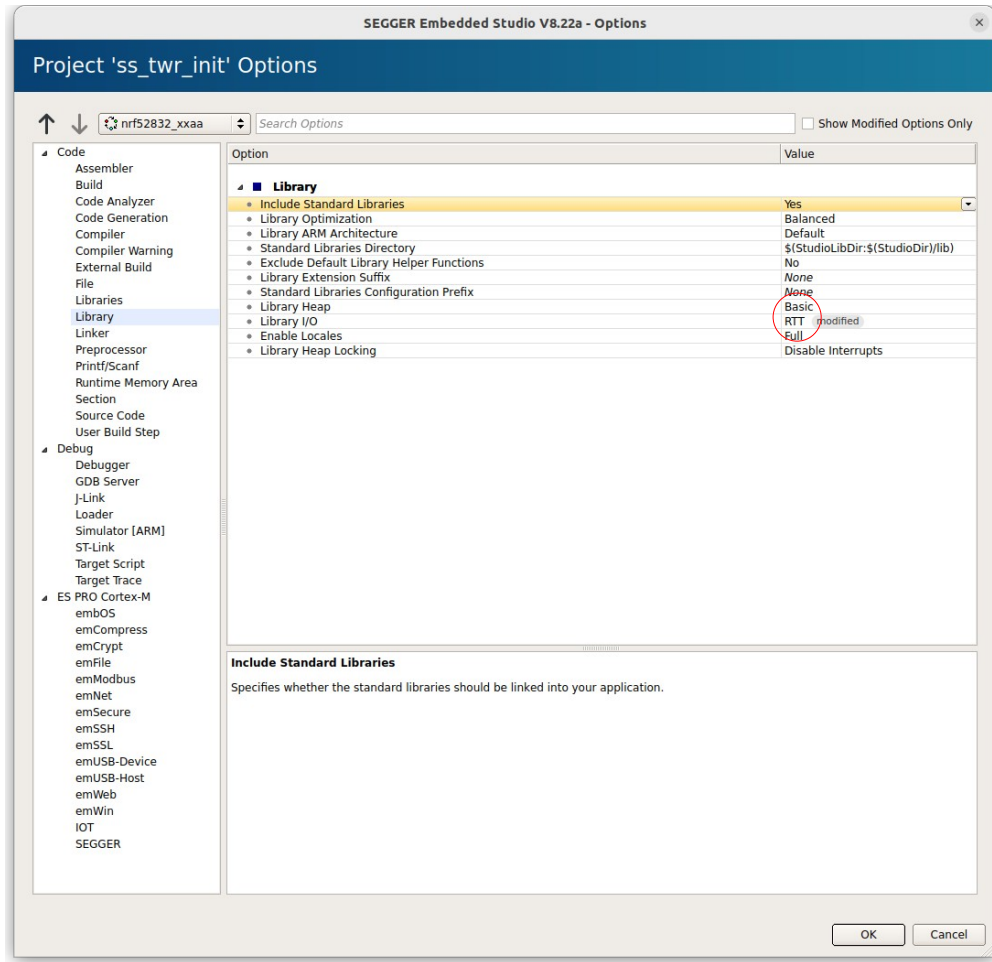
DWM1001 내부 구성



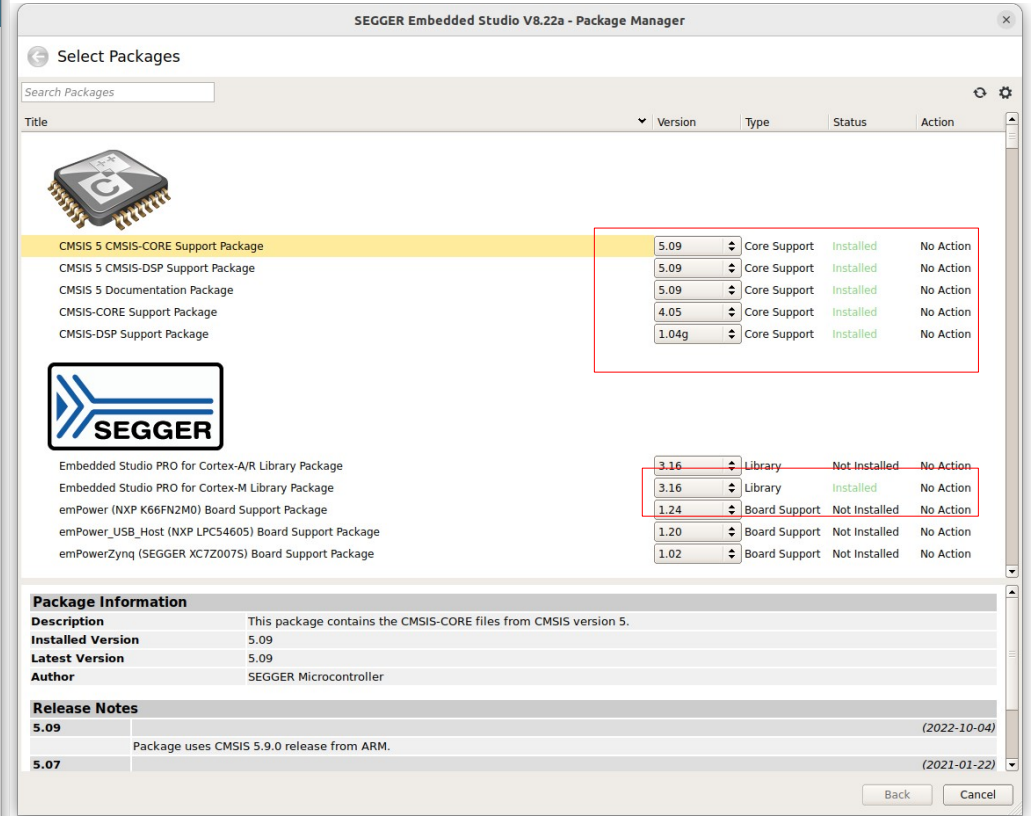
*SPI M1 is nRF52 SPI master 1, SPI S2 is SPI slave 2

SEGGER's Embedded Studio & dwm1001-examples 빌드 설정

1. Git clone <https://github.com/Decawave/dwm1001-examples.git>
2. SES 로 ss_twr_ini 솔루션파일 오픈
3. 프로젝트 선택후 메뉴 project → code → Library → Library I/O → RTT 선택
4. 메뉴 – Tools → Package Manager → CMSIS 관련 Package 설치 , Cortex-M Library Package 설치
5. main.c 안에 #include “uart.h” → “UART.h” 변경 후 빌드



3. 프로젝트 선택후 메뉴 project → code → Library → Library I/O → RTT 선택



4. 메뉴 – Tools → Package Manager → CMSIS
관련 Package 설치 , Cortex-M Library Package
설치

ss_twr_init

- static dwt_config_t config = {
- 5, /* Channel number. */
- DWT_PRF_64M, /* Pulse repetition frequency. */
- DWT_PLEN_128, /* Preamble length. Used in TX only. */
- DWT_PAC8, /* Preamble acquisition chunk size. Used in RX only. */
- 10, /* TX preamble code. Used in TX only. */
- 10, /* RX preamble code. Used in RX only. */
- 0, /* 0 to use standard SFD, 1 to use non-standard SFD. */
- DWT_BR_6M8, /* Data rate. */
- DWT_PHRMODE_STD, /* PHY header mode. */
- (129 + 8 - 8) /* SFD timeout (preamble length + 1 + SFD length - PAC size). Used in RX only. */
- };