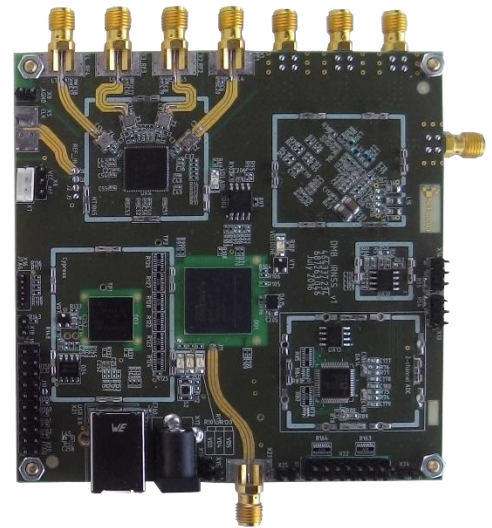


1 OVERVIEW

NT1065/66_USB3 BOARD is 7-channel all-band all-system multi-channel GNSS software defined receiver (SDR) platform based on RFFE IC NT1065 and NT1066 for receiving GPS/GLONASS/Galileo/BeiDou/IRNSS/QZSS signals in L1/L2/L3/L5/E1/E5/E6/B1-C/B1I(Q)/B1-2I(Q)/B2/B3 bands, and also for receiving IRNSS signals in S band. In total it has 4 coherent channels and 3 additional channels, available for simultaneous reception of navigational signals. NT1065/66_USB3 BOARD can be configured for capturing wide band GNSS signals (such as Galileo E5) by two coherent channels with common LO source. GNSS sampled data are transferred to the USB 3.0 interface with sample rate up to 100MHz and can be received by PC or another computing device.

2 KEY FEATURES

- IO ports:
 - Every channel has individual RF input with active antenna supply option
 - External reference frequency input
 - USB 3.0 output
- On-board reference frequency sources:
 - 10 MHz 0.28ppm TCXO
 - 24.84 MHz 1.5ppm TCXO
- Comprehensive software and manual:
 - GUI for NT1065 registers access (Windows XP/ Windows 7 compatible)
 - GUI for NT1066 registers access (Windows XP/ Windows 7 compatible)
 - GUI for USB 3.0 data capture
 - Configuration examples Complete
 - NT1065 datasheet
 - NT1066 preliminary description
 - PCB reference design database



3 STRUCTURE

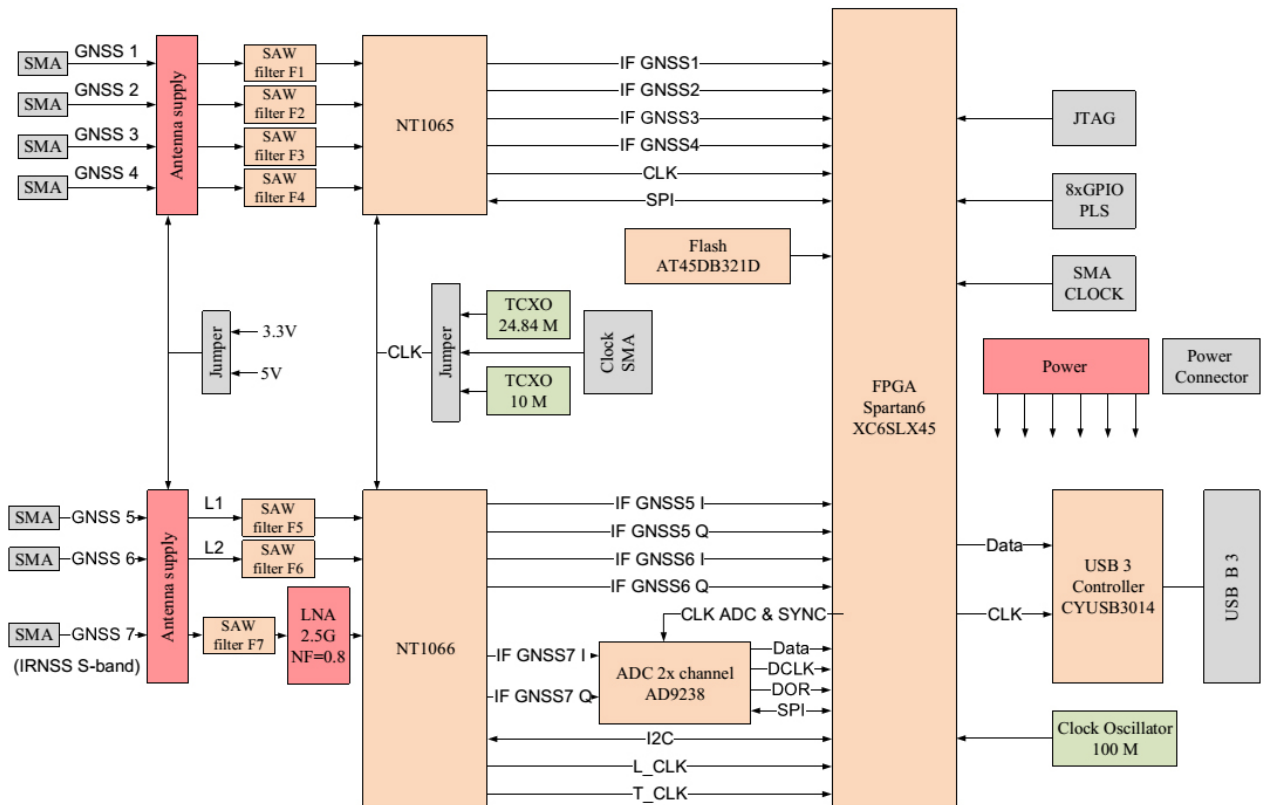


Figure 1: Block diagram