

1. OVERVIEW

NT1068.2_USB3 is an evaluation platform for performance and capabilities demonstration of NT1068.2: 4-channel GPS/GLONASS/Galileo/BeiDou/NavIC/QZSS S, L1, L2, L3, L5, E1, E5a, E5b, E6, B1, B2, B3 band RF Front-End IC. It includes USB3 data converter thus allowing an user to process captured satellite signals on a PC. Data rate is configurable and may be as high as 800 Mbps (200 Mbps per channel).

2. KEY FEATURES

- IO ports:
 - o RF splitter input with active antenna supply option
 - o Every channel individual RF input with active antenna supply option
 - o External reference frequency input (TCXO)
 - o USB3.0 output
- On-board reference frequency sources:
 - o 10 MHz 0.28ppm high-stability TCXO
- Additional modules:
 - o 1-to-4 RF splitter
 - o 2-to-4 RF splitter
 - o 4-channel RF preselector
 - o 1-to-5 RF splitter (SPL15-45514 or SPL15-465X5 recommended)
- Comprehensive software and manual:
 - o NT1068.2 datasheet
 - o NT1068.2 USB3 user manual
 - GUI for NT1068.2 registers access (Windows 7/8/8.1/10 compatible; Linux Ubuntu 18.04 compatible)
 - o GUI for USB3 data capture
 - o NT1068.2 configuration examples
 - o Database of reference design

3. PACKAGE CONTENT

- PCB NT1068.2 USB3 v2 (NT1068.2 USB3 demo board)
- Power supply cable
- USB3.0 interface cable
- Link to online documentation and GUI





4. STRUCTURE

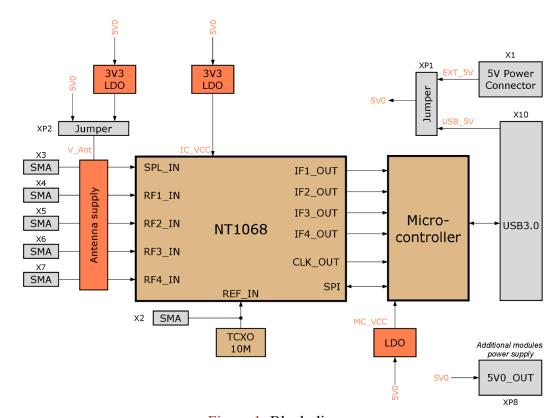
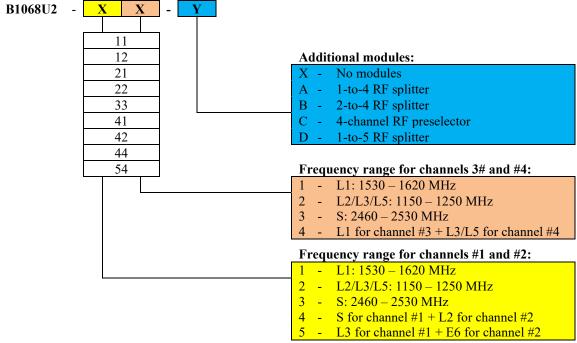


Figure 1: Block diagram

5. ORDERING INFORMATION



If several additional modules are required, please, add corresponding symbols consequently, e.g. B1068U2-44-AB. Refer to documents NT1065_Additional modules_vx.xx.pdf and document RF_Splitter_1_to_5_vx.x.pdf for description and assembly options.

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