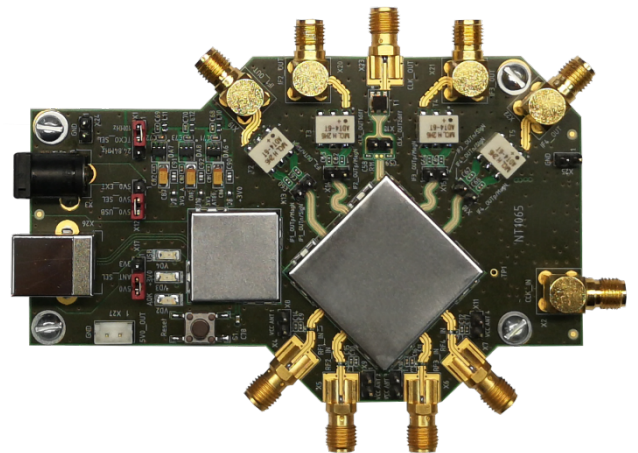


1 OVERVIEW

NT1065_EVK2 is an evaluation platform for performance and capabilities demonstration of NT1065: 4-channel GPS/GLONASS/Galileo/BeiDou/NavIC/QZSS L1, L2, L3, L5, E1, E5a, E5b, E6, B1, B2, B3 band RF Front-End IC. It is suitable the most for in-lab examining with measurement equipment like spectrum analyzer, oscilloscope, network analyzer and etc, but also it has connectors for wiring to external development platforms.

2 KEY FEATURES

- IO ports:
 - Every channel individual RF input with active antenna supply option
 - Every channel IF output ready to connect either as digital 2-bit CMOS or differential analog signal (single ended is also available as assembly option)
 - External reference frequency input (TCXO)
 - CLK output ready to connect either as CMOS or LVDS (single-ended sinewave is also available as assembly option)
 - Embedded USB to SPI adapter for NT1065 registers configuration
- On-board reference frequency sources:
 - 10 MHz 0.28ppm high-stability TCXO
 - 24.84 MHz 1.5ppm TCXO
- Additional modules:
 - 1-to-4 RF splitter
 - 2-to-4 RF splitter
 - 4-channel RF preselector
 - 1-to-5 RF splitter
- Comprehensive software and manual:
 - NT1065 EVK2 user manual
 - GUI for NT1065 registers access (Windows 7/8/8.1/10 and Linux Ubuntu 16.04 compatible)
 - Configuration examples
 - NT1065 datasheet
 - Database of reference design



3 STRUCTURE

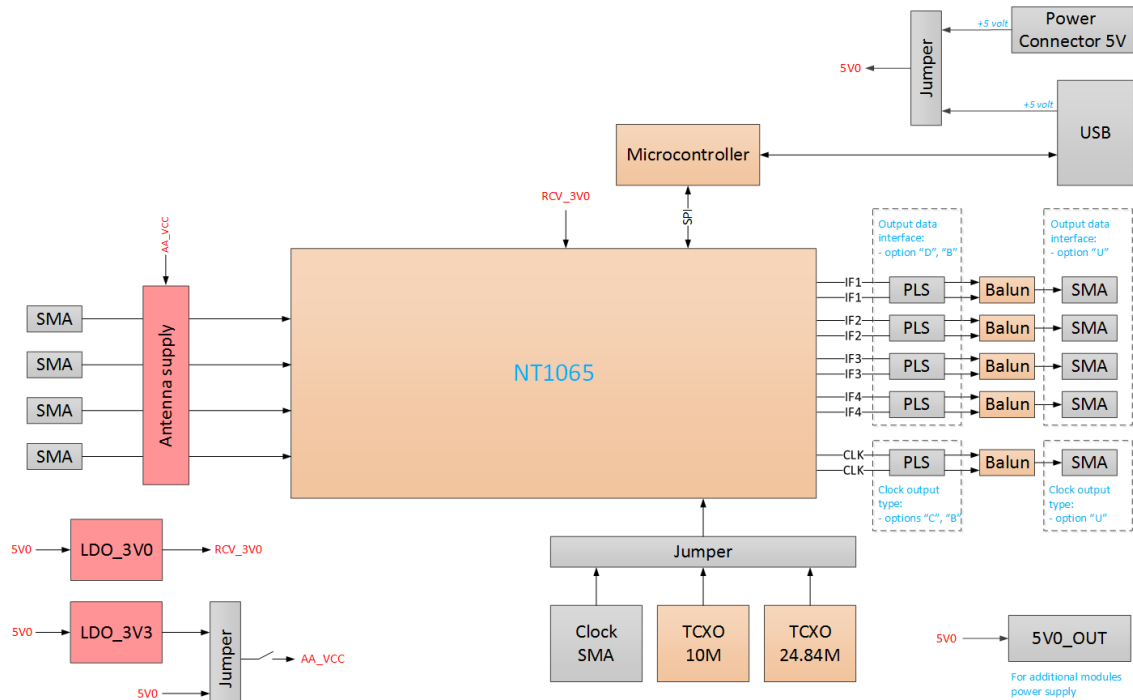
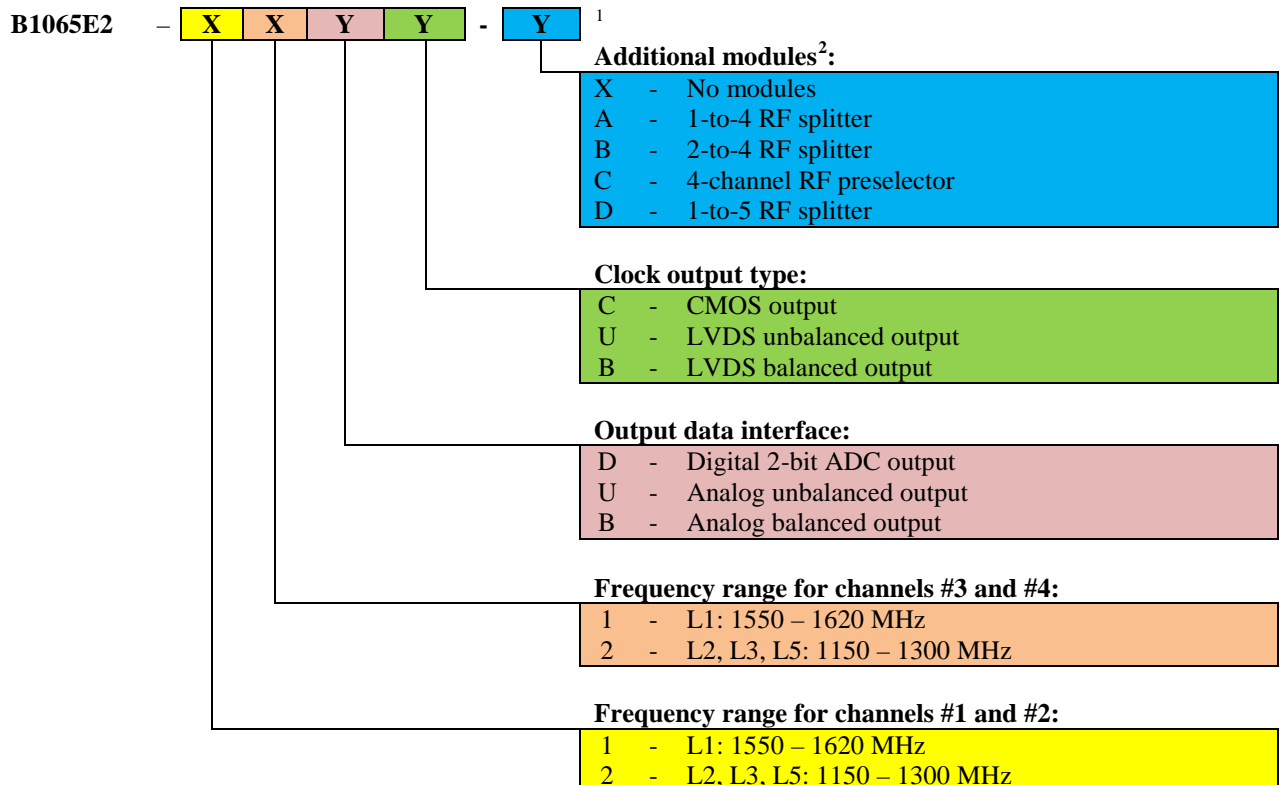


Figure 1: Block diagram

4 ORDERING INFORMATION



¹ Assembly options B1065E2-12UU and B1065E2-12DC are in stock, lead time – 1-2 week(s). Other options are available upon request, lead time – 1-2 month(s).

² If several additional modules are required, please, add corresponding symbols consequently, e.g. B1065E2-12UU-AB. Refer to documents [NT1065_Additional modules_vx.xx.pdf](#) and [RF_Splitter_1_to_5_vx.x.pdf](#) for description and assembly options.