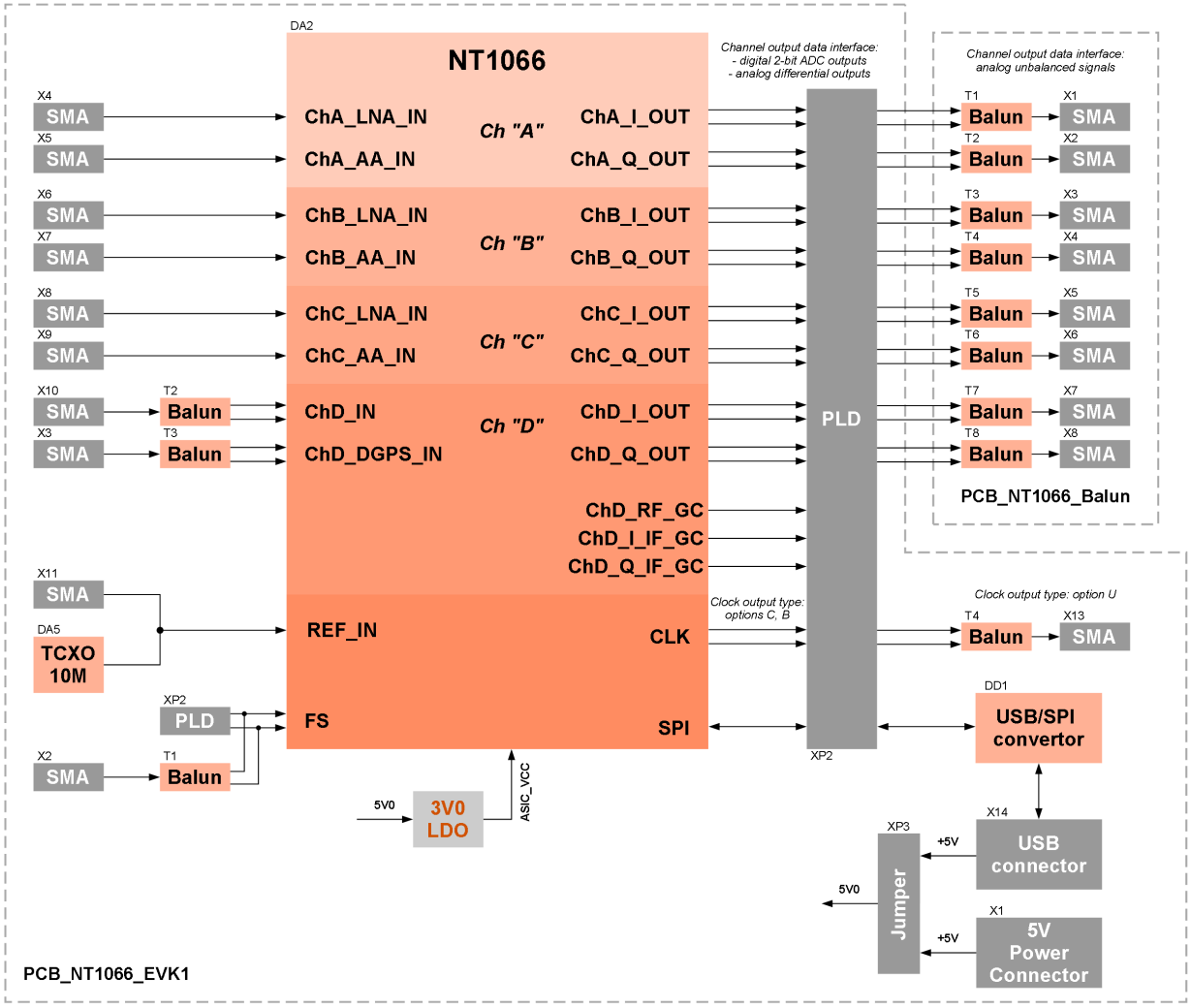
1. OVERVIEW

NT1066_EVK is intended for prototyping of navigation receivers based on NT1066: 4-Channel RF Front End (3 wideband IQ and 1 narrowband IQ) that covers all GNSS (GLONASS, GPS, Galileo, BeiDou, QZSS, IRNSS) signals at all frequency bands (L1, L2, L3, L5, E1, E5a, E5b, E6, B1, B2, B3 and S) and can be 'on a fly' software-reconfigured to receive real-time corrections data transmitted over FM, VHF and UHF bands. NT1066_EVK can be also used as evaluation platform for performance and capabilities demonstration of NT1066. It is suitable for in-lab examining and has PLS and SMA connectors for wiring to measurement equipment like spectrum analyzer, oscilloscope, network analyzer etc. or to external development platforms.
Wide list of attractive features and high level of customization make NT1066 capable to meet a demand of researchers and OEM developers in special applications: high precision positioning, goniometric, driverless car systems, professional drones and related areas.

2. KEY FEATURES

- IO ports:
  - Three 50Ω SMA input connectors for L1, L2, L3, L5 bands of GNSS signal reception (recommended for passive or low gain antennas)
  - Three 50Ω SMA input connectors for L1, L2, L3, L5 bands of GNSS signal reception (recommended for active antennas)
  - 50Ω SMA input connector for S band of IRNSS or L2, L3, L5 bands of GNSS signals receiving
  - 50Ω SMA input connector for real-time corrections data reception
  - SMA input connector for external reference frequency
  - Every channel individual IF output ready to connect either as digital, analog differential or single-ended signal
  - External sampling frequency input ready to connect either as CMOS, LVDS or single-ended sinewave
  - Clock output ready to connect either as CMOS, LVDS or single-ended sinewave
  - Embedded USB to SPI convertor for NT1066 registers configuration
- On-board reference frequency source:
  - 10 MHz 0.28ppm high-stability TCXO
- Additional modules:
  - 1 to 4 RF splitter
  - 4-channel RF preselector
- Comprehensive software and manual:
  - NT1066 datasheet
  - NT1066 EVK user manual
  - GUI for NT1066 registers access (Windows 7/8/8.1/10 and Linux Ubuntu 16.04 compatible)
  - NT1066 configuration examples
  - Database of PCB reference design (on request)

3. STRUCTURE



4. ORDERING INFORMATION