1 OVERVIEW

NT1065_USB3 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 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:**
  - Every channel individual RF input
  - External reference frequency input (TCXO)
  - USB3.0 output
- **On-board reference frequency sources:**
  - 10 MHz 0.28ppm high-stability TCXO
- **Additional modules:**
  - 1 to 4 RF splitter
  - 2 to 4 RF splitter
  - 4-channel RF preselector
- **Comprehensive software and manual:**
  - GUI for NT1065 registers access (Windows 7/8/8.1/10 and Linux Ubuntu 16.04 compatible)
  - GUI for USB3 data capture
  - Configuration examples
  - Complete NT1065 user guide
  - Database of reference design


3 STRUCTURE

![Block Diagram]

Figure 1: Block diagram

4 ORDERING INFORMATION

B1065U1 - X X Y

Additional modules:

X - No modules
A - 1 to 4 RF splitter
B - 2 to 4 RF splitter
C - 4-channel RF preselector

Frequency range for channels #3 and #4:

1 - L1: 1550 – 1620 MHz
2 - L2, L3, L5: 1150 – 1300 MHz

Frequency range for channels #1 and #2:

1 - L1: 1550 – 1620 MHz
2 - L2, L3, L5: 1150 – 1300 MHz

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1 Assembly option B1065U1-12 is 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. B1065U1–12–AB. Refer to document "Additional modules_NT1065.pdf" for description and assembly options.

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