1 GNSS_S14

1.1 OVERVIEW
GNSS_S14 is 1-to-4 active splitter with L1, L2, L3 and L5 subbands RF preselection. It is intended to be used with NT1065 demo boards NT1065_EVK, NT1065_FMC, NT1065_USB3 if passive or low gain antennas (cable losses included) should be plugged in. Paired solution (module+board) provides less than 1dB of total noise figure and more than 35dB of outband RF rejection. Every channel can be assembled to pass through any of available GNSS bands independently, however, it is recommended to verify with application restrictions of NT1065 "Nomada".

1.2 KEY FEATURES
- IO ports:
  - 1 RF inputs with active antenna supply capabilities 3V/5V
  - 4 RF outputs
  - 5V power supply connector
- Total gain 25dB per channel typ
- Noise figure 0.8dB typ

1.3 STRUCTURE

![Figure 1.1: GNSS_S14 block diagram](image)

1.4 ORDERING INFORMATION

<table>
<thead>
<tr>
<th>SAW filters</th>
<th>F1</th>
<th>F2</th>
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<tr>
<td>1 - TA0550A (1593 – 1609 MHz)</td>
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<tr>
<td>2 - TA0549A (1569 – 1582 MHz)</td>
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<tr>
<td>3 - TA1785A (1560 – 1606 MHz)</td>
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<tr>
<td>4 - TA1104A (1145 – 1253 MHz)</td>
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<tr>
<td>5 - TA0871A (1226 – 1249 MHz)</td>
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<tr>
<td>6 - TA1227BB (1217 – 1237 MHz)</td>
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<tr>
<td>7 - TA0582A (1180 – 1220 MHz)</td>
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2 GNSS_S24

2.1 OVERVIEW
GNSS_S24 is 2-to-4 active splitter with L1, L2, L3 and L5 subbands RF preselection. It is intended to be used with NT1065 demo boards NT1065_EVK, NT1065_FMC, NT1065_USB3 if passive or low gain antennas (cable losses included) should be plugged in. Paired solution (module+board) provides less than 1.5dB of total noise figure and more than 35dB of outband RF rejection. Every channel can be assembled to pass through any of available GNSS bands independently, however, it is recommended to verify with application restrictions of NT1065 "Nomada".

2.2 KEY FEATURES
- IO ports:
  - 2 RF inputs with active antenna supply capabilities 3.3V/5V
  - 4 RF outputs
  - 5V power supply connector
- Total gain 12dB typ
- Noise figure 1.2dB typ

2.3 STRUCTURE

2.4 ORDERING INFORMATION

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Figure 2.1: GNSS_S24 block diagram
3 GNSS_S44

3.1 OVERVIEW

GNSS_S44 is a 4-channel RF preselector for L1, L2, L3 and L5 subbands. It is intended to be used with NT1065 demo boards NT1065_EVK, NT1065_FMC, NT1065_USB3 if passive or low gain (cable losses included) antennas should be plugged in. Paired solution (module+board) provides less than 1.3dB of total noise figure and more than 35dB of outband RF rejection. Every channel can be assembled to pass through any of available GNSS bands independently, however, it is recommended to verify with application restrictions of NT1065 "Nomada".

3.2 KEY FEATURES

- IO ports:
  - 4 RF inputs with active antenna supply capabilities 3.3V/5V
  - 4 RF outputs
  - 5V power supply connector
- Total gain 13dB typ
- Noise figure 1dB typ

3.3 STRUCTURE

![Figure 3.1: GNSS_S44 block diagram](image)

3.4 ORDERING INFORMATION

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<td>4 - TA1104A (1145 – 1253 MHz)</td>
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