MobileTek
Smart solution for a smarter world

LYNQ N23
N17-01-B0109

16.0mm

12.2mm

2.5mm

N23
GNSS module

N23 is GNSS module. This is a standalone GNSS module in a SMT type base on HD high sensitivity navigation engine. The N23 has high performance and small package, which makes it easy to be used in M2M scenarios, such as measurement, timing, navigation, tracking, etc.

Tiny Size

Ultra Low Power Consumption

Extended Temperature Range-40°C to +85°C

Super Tracking Sensitivity-160dBm

LYNQ

Main Features

- Support GPS/IRNSS/Galileo/Glonass
- Support SBAS ranging (WAAS, EGNOS, GAGAN, MSAS, SDCM)
- Low noise amplifier has been integrated
- Module Dimensions : 16.0*12.2*2.5 mm
- Weight : <1g
- Operation temperature: -40℃~+85 ℃

Power Management

- Power supply : +3.0V ~ 3.6V
- Backup power : +1.7V ~ 3.6V
- Power consumption
  Acquisition: 36mA
  Tracking: 34mA
  Sleep: 980uA
  Backup: 9.0uA
- Antenna type : Active and Passive
- Antenna power : External

Interfaces

- Antenna interface:
  GNSS_ANT
- Serial interface
  UART
- Digital I/O
  PPS/Force_on/ANT_DET/HRST
- Protocols
  NMEA
  PHD

Performance data

- Receiver type
  40 tracking / 96 acquisition- channel GNSS receiver
- Maximum update rate: 20Hz
- Sensitivity
  Tracking   : -160 dBm
  Reacquisition : -157 dBm
  Cold starts   : -146 dBm
- TTFF@-130dBm
  Cold starts   : 32s (typical)
  Warm starts : 30s
  Hot starts :   <1s
- Accuracy
  Automatic Position : 2.5m CEP
  Speed : 0.1m/s

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