

## Features:

- · Two antenna inputs with IPEX or SMA connectors
- USB, I2C and two UART (Tx, Rx) interfaces
- Time pulse LED, GEO LED, RTK LED, Power LED
- u-precise Unicore evaluation software
- · Extensive visualization and evaluation features
- Dimensions: 24.5x33.5 mm without SMA
- · Weight 10 gram
- · Fully assembled and ready to use



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TXD3

**GND** 



Reference: ELT0214

I2C Clock VCC level SCL 9
Must connect to GND GND 10

3.33 TIME

N/C 19 **EVÉNT EVENT input VCC level** 18 RTK\_STAT RTK\_STAT output VCC level I2C Data VCC level 17 SDA Data in VCC level 16 RXD3 15 N/C 14 V BCKP Backup power supply 13 PPS Timepulse output VCC level

Timepulse output VCC lev Data out VCC level Must connect to GND

V\_BCKP 2.0...VCC level, <60uA. Connect to VCC if not used, do not leave floating.

GNSS FEATURES	
Receiver type	1408-channel NebulasIV engine Beidou, Galileo, GLONASS, GPS/QZSS
GNSS platform	All-constellation Concurrent GNSS
GNSS bands	L1C/A/L2P (Y)/L2C/L5, B1I/B2I/B3I, G1/G2, E1/E5a/E5b, L1/L2/L5
GNSS technology	Dual RTK

## PERFORMANCE

Horizontal pos. accuracy
Single point (RMS)

DGPS (RMS)

RTK (RMS)

1.5 m

0.4 m + 1 ppm

0.008 m + 1 ppm

RTK (RMS) 0.008 Vertical pos. accuracy

 Single point (RMS)
 2.5 m

 DGPS (RMS)
 0.8 m + 1 ppm

 RTK (RMS)
 0.015 m + 1 ppm

 Heading accuracy (RMS)
 0.1°/1 m baseline

 Velocity accuracy (RMS)
 0.03 m/s

 Time accuracy (RMS)
 < 20 ns</td>

Observation accuracy (RMS)

Pseudorange (all systems) 10cm Carrier Phase (all systems) 1 mm

RTK Initialization time < 5 s (typ)
RTK initialization reliability > 99.9%
Time to First Fix Cold start < 30s
Data update rate Dual antenna 20 Hz

OTHER FEATURES	3
Heading	Angle from the True North to the baseline between Master and Slave antennas Angle from True North to the baseline of the base to rover in RTK mode.
Anti-spoofing	Advanced anti-spoofing algorithms
Anti-jamming	Active CW detection and removal Jamming status for each frequency
Operating temperature	0 °C to +50 °C
Supply voltage	3.3 V to 3.6 V
Supply current	<200 mA typ (without external antenna)
External antenna requirements	Supply voltage <3.0 V Consumption current <100 mA