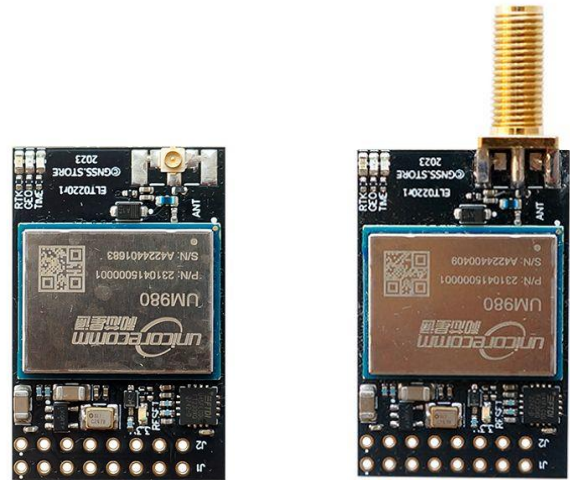## Features:

- Antenna input with IPEX or SMA connectors
- On board low noise 3.3V voltage regulator
- **USB**, **SPI, 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
- Time pulse LED, GEO LED, RTK LED, Power LED
- Backup supercapacitor
- Dimensions: 24x38 mm without SMA
- Weight 10 gram
- Fully assembled and ready to use

Reference: ELT0220

GNSS FEATURES	
Receiver type	1408-channel NebulasIV engine Beidou, Galileo, GLONASS, GPS/QZSS
GNSS platform	All-constellation Concurrent GNSS
GNSS bands	GPS L1C/A/L2P (Y)/L2C/L5
	BDS B1I/B2I/B3I/B1C/B2a/B2b
	GLONASS G1/G2/G3
	Galileo E1/E5a/E5b/E6
	QZSS L1C/A/L!C/L2C/L5
	NavIC L5
	SBAS L1C/A

RXD2 — TXD2
SPIS_MOSI — SPIS_CSN
SPIS_MISO — SPIS_CLK
RXD3 — TXD3
SCL — PPS
SDA — EVENT
+5V — GND
USB_D+ — USB_D-

PERFORMANCE
Horizontal pos. accuracy

Single point (RMS)	1.5 m
DGPS (RMS)	0.4 m + 1 ppm
RTK (RMS)	0.008 m + 1 ppm

Vertical pos. accuracy

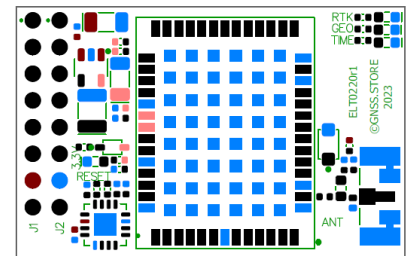|	
Single point (RMS)	2.5 m
DGPS (RMS)	0.8 m + 1 ppm
RTK (RMS)	0.015 m + 1 ppm
Heading accuracy (RMS)	0.1°/1 m baseline
Velocity accuracy (RMS)	0.03 m/s
Time accuracy (RMS)	< 20 ns

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 < 30 s
	Warm start < 20 s
Data update rate	50 Hz Positioning

OTHER FEATURES	
Anti-jamming	60dB narrowband anti-jamming technology Active CW detection and removal Jamming status for each frequency
Anti-spoofing	Advanced anti-spoofing algorithms
RTK technology	Instantaneous RTK initialization
Operating temperature	0 °C to +50 °C
Supply voltage	4.5 V to 5.5 V
Supply current	<150 mA typ (without external antenna)
External antenna requirements	Supply voltage <5.0 V
	Consumption current <100 mA