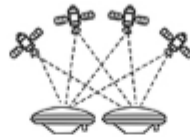




Accurate Directivity



Multi-star Reception



**High Quality of Signal Receive and
Low Delay**



Anti-out-of-band Interference



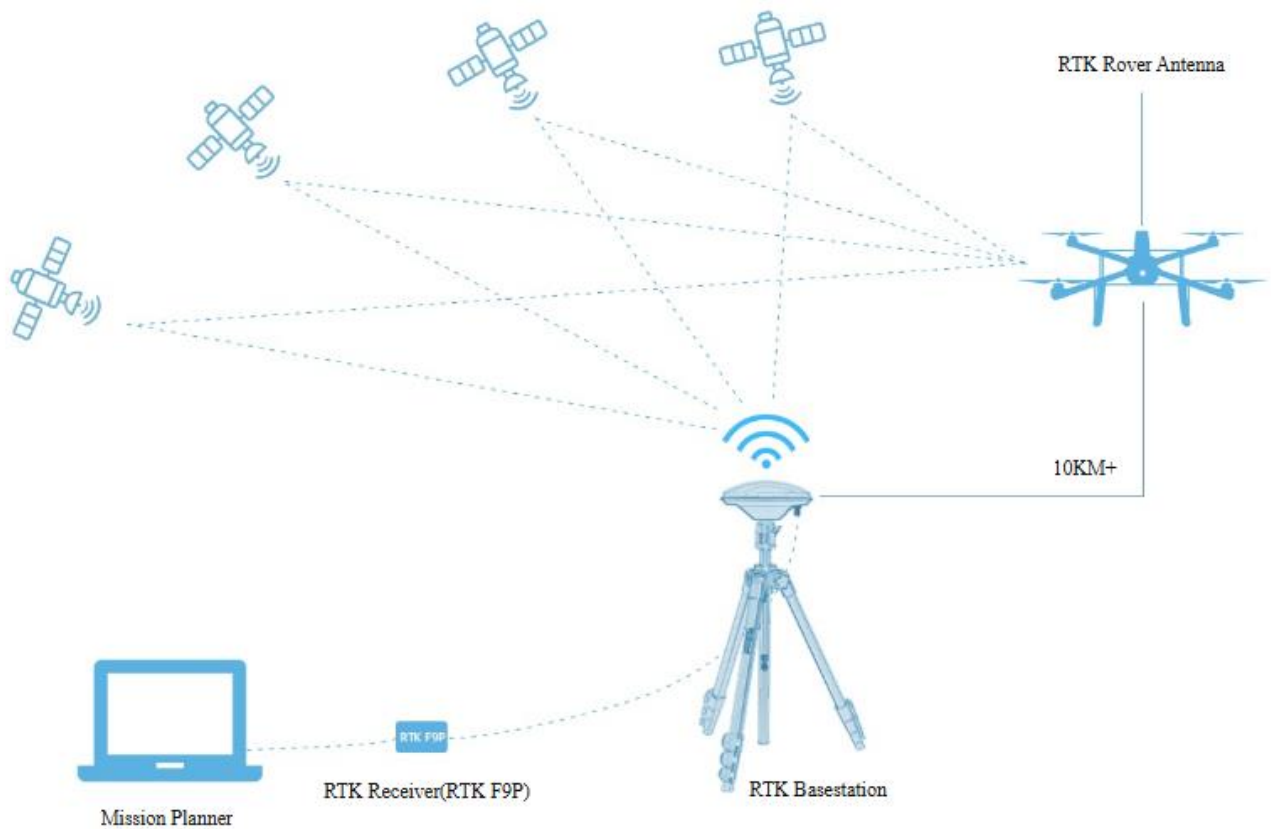
Anti-in-band Interference



Cost-effective Solution

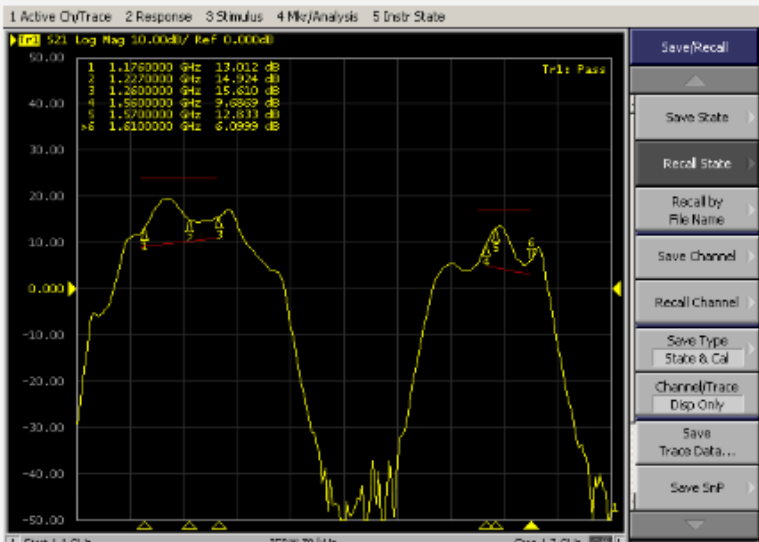
Multi-star Reception

The four-feed eight-pin antenna has high gain at low elevation angles and strong tracking capability for low-elevation satellites, ensuring the measurement system has enough satellites.



High Quality of Signal Receive and Low Delay

The ceramic filter and time-delay compensation circuit design are adopted to obtain accurate measurement time and improve positioning accuracy.



Fast Switching between BaseStation and Rover

The RTK base station and RTK rover use the same design and firmware. You only need to load different configuration parameters to complete fast switching.

The base station and rover use Type-C interfaces, and both ends can be switched freely.



[More details about the RTK rover Antenna ANT-M7](#)



[More details about the RTK receiver RTK F9P](#)

ANT-B10 Specification		
Project	Nominal Value	Remark

Frequency Range	L5: 1176MHz B2: 1207MHz L2: 1227MHz G2: 1246MHz B3: 1268MHz E6: 1278MHz B1: 1561MHz L1: 1575MHz G1: 1602MHz		GPS, SBAS, GLONASS, GaLileo, BeiDou, QZSS, IRNSS
Gain	@1176MHz (GPS L5)	$\geq 3\text{dB ic}$	3dB bridge coupling
	@1207MHz (BDS B2)	$\geq 4\text{dB ic}$	
	@1227MHz (GPS L2)	$\geq 5\text{dB ic}$	
	@1246MHz (Glonass L2)	$\geq 4\text{dB ic}$	
	@1268MHz (B3I)	$\geq 3\text{dB ic}$	
	@1278MHz (E6)	$\geq 3\text{dB ic}$	
Antenna AR	@1176MHz (GPS L5)	≤ 1.5	3dB bridge coupling
	@1207MHz (BDS B2)	≤ 1.4	
	@1227MHz (GPS L2)	≤ 1.3	
	@1246MHz (Glonass L2)	≤ 1.3	
	@1268MHz (B3I)	≤ 1.4	
	@1278MHz (E6)	≤ 1.5	
Gain	@1560MHz (BDS B1)	$\geq 4\text{dB ic}$	3dB bridge coupling
	@1575MHz (GPS L1)	$\geq 5\text{dB ic}$	
	@1602MHz (Glonass L1)	$\geq 5\text{dB ic}$	
	@1610MHz	$\geq 4\text{dB ic}$	
AR	@1560MHz (BDS B1)	≤ 1.5	3dB bridge coupling
	@1575MHz (GPS L1)	≤ 1.4	
	@1602MHz (Glonass L1)	≤ 1.5	
	@1610MHz	≤ 1.4	

VSWR	≤1.5	
Phase Center Error	≤±2MM	3dB bridge coupling
Polarization	Right-hand Circular Polarization	
Port Impedance	50Ω	
Electrical Specifications		
LNA Gain	38 d B± 3	
Noise Figure	≤1.9(with pre-filter)	LNA link noise figure ≤ 1.0
VSWR	≤ 2	
Group Delay	≤10ns	
Output Impedance	50Ω	
Out-of-band Suppression Ratio	≥40 d B	
Output 1dB Compression Point	≤25 d B m	
Operating Current	≤55MA	
Operating Voltage	2.8 V - 18 V	
Anti-static	± 8 K V	
Lightning Surge Protection	According to the IEC61000-4-5 standard, it can withstand 3KV, 1.2/50us impulse voltage.	
Structural Characteristics		
Connector Type	SMA	
Antenna Size	diameter: 28mm, height: 59mm	
Weight	368.7g	
Working Environment		
Operating Temperature	-40°C--85°C	
Storage Temperature	-40°C--95°C	
Waterproof	IP67	