

Specification

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Hardware Specification

Product Model	DroneCAN H-RTK F9P Rover	DroneCAN H-RTK F9P Helical
Intended Application	Rover (aircraft) only	Rover (aircraft) or Base station
GNSS Receiver	U-blox ZED-F9P high precision GNSS module	U-blox ZED-F9P high precision GNSS module
Antenna	Ceramic Patch Antenna with 20dB LNA	Helical Antenna with 36dB LNA
Processor	STM32G473	Available with <ul style="list-style-type: none">• STM32-G473or• NXP-S32k146
Magnetometer	BMM150 or IST8310	BMM150 or IST8310
GNSS	BeiDou, Galileo, GLONASS, GPS / QZSS	BeiDou, Galileo, GLONASS, GPS / QZSS
GNSS Band	B1I, B2I, E1B/C, E5b, L1C/A, L1OF, L2C, L2OF	B1I, B2I, E1B/C, E5b, L1C/A, L1OF, L2C, L2OF
Positioning accuracy	3D FIX: 1.5 m / RTK: 0.01 m	3D FIX: 1.5 m / RTK: 0.01 m
Communication Protocol	DroneCAN 1Mbit/s	DroneCAN 1Mbit/s
Antennas Peak Gain (MAX)	L1: 4.0dBi L2:1.0 dBi	L1: 2dBi L2: 2dBi
Time-TO-First Fix	Cold start: $\leq 29s$ Hot start: $\leq 1s$	Cold start: $\leq 25s$ Hot start: $\leq 1s$
Navigation Update Rate	RAW: 20Hz Max RTK: 8Hz Max	RAW: 20Hz Max RTK: 8Hz Max Moving Base RTK: 5Hz Max
Cable Length	27cm or 50cm	N/A
Antenna Connection Type	N/A	Board: SMA female Antenna: SMA male

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Working voltage:	4.75V~5.25V	4.75V~5.25V
Current Consumption	~250mA	~250mA
Dimensions	Diameter: 80mm Height: 20mm	Board (G4): 51.1*35*22.9mm Board (S32k1): 51.1*35*24.3mm Antenna Diameter: 27.5mm Antenna height: 59mm
Weight	123g	58g
Operating Temperature	-20°C to 85°C	-20°C to 85°C
