

# K8 SERIES



K802



K803 Lite



K803B



K803S



K803



K823

## GNSS MODULES

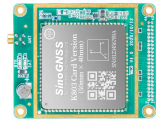
	Size	17×22×3.4 mm	30×30×3.2 mm	30×30×3.2 mm	30×30×3.2 mm	30×30×3.2 mm	30×30×3.2 mm	30×40×3.2 mm
	Frequency	Dual-frequency	Single-frequency	Dual-frequency	Triple-frequency	Triple-frequency	Triple-frequency	Dual-frequency
<b>Signal</b>	BDS	B1I, B3I	B1I	B1I, B2I/B3I	B1I, B2I, B3I, B1C, B2a, B2b	B1I, B2I, B3I, B1C, B2a, B2b	B1I, B2I, B3I, B1C, B2a, B2b	B1, B3, B1C*
	GPS	L1 C/A, L2P, L2C	L1C/A	L1C/A, L2P, L2C	L1C/A, L2P, L2C, L5	L1C/A, L2P, L2C, L5, L1C	L1C/A, L2P, L2C, L5, L1C	L1, L2
	GLO	G1, G2	G1	G1, G2	G1, G2	G1, G2, G3	G1, G2, G3	G1, G2
	GAL	E1, E5b	E1	E1, E5b	E1, E5b, E5a	E1, E5b, E5a, E6, E5 AltBoc*	E1, E5b, E5a, E6, E5 AltBoc*	E1, E5b
	QZSS	L1C, L2	-	-	L1C, L2, L5	L1C, L2, L5, L1C/A	L1C, L2, L5, L1C/A	L1, L2*
	SBAS	L1	-	-	L1, L5	L1, L5	L1, L5	L1
	IRNSS	L5*	-	-	L5*	L5*	L5*	-
	L-Band*	-	-	-	+	+	+	+
<b>Positioning Accuracy</b>	SPP	H:≤1.5m V:≤3.0m	H:≤1.5m V:≤3.0m	H:≤1.5m V:≤3.0m	H:≤1.5m V:≤3.0m	H:≤1.5m V:≤3.0m	H:≤1.5m V:≤3.0m	H:≤1.5m V:≤3.0m
	DGPS	H:≤0.3m V:≤0.5m	H:≤0.3m V:≤0.5m	H:≤0.3m V:≤0.5m	H:≤0.3m V:≤0.5m	H:≤0.3m V:≤0.5m	H:≤0.3m V:≤0.5m	H:≤0.3m V:≤0.5m
	RTK	H:≤8mm+1ppm V:≤15mm+1ppm	H:≤8mm+1ppm V:≤15mm+1ppm	H:≤8mm+1ppm V:≤15mm+1ppm	H:≤8mm+1ppm V:≤15mm+1ppm	H:≤8mm+1ppm V:≤15mm+1ppm	H:≤8mm+1ppm V:≤15mm+1ppm	H:≤8mm+1ppm V:≤15mm+1ppm
<b>Velocity Accuracy</b>		≤0.02m/s	≤0.02m/s	≤0.02m/s	≤0.02m/s	≤0.02m/s	≤0.02m/s	≤0.02m/s
<b>Heading Accuracy</b>	Azimuth							0.2°/R <sup>2</sup>
	Roll or Pitch							0.3°/R
<b>Data Update</b>	Raw Data	20Hz	10Hz	10Hz	20Hz	20Hz	20Hz	20Hz
	RTK*	20Hz	10Hz	10Hz	20Hz	20Hz	20Hz	20Hz
<b>Function</b>	IMU	support	-	-	-	support	support	support
<b>I/O</b>	Serial Port	3×LVCMOS	4×LVCMOS	4×LVCMOS	4×LVCMOS	4×LVCMOS	4×LVCMOS	3×LVCMOS
	PPS	1	1	1	1	1	1	1
	EVENT	1	2	2	2	2	2	2
	SPI	1	1	1	1	1	1	1
<b>Physical &amp; Electrical Specifications</b>	IO	LGA 54Pin, 1.05mm	LGA 82Pin, 1.27mm	LGA 82Pin, 1.27mm	LGA 82Pin, 1.27mm	LGA 82Pin, 1.27mm	LGA 82Pin, 1.27mm	LGA 60Pin, 1.27mm
	Weight(g)	5	8	8	8	8	8	10
	Input Voltage	+3.3V DC	+3.3V DC	+3.3V DC	+3.3V DC	+3.3V DC	+3.3V DC	+3.3V DC
	Power Consumption(w) <sup>1</sup>	0.8	0.85	0.85	1	1	1	1.6

Note: "-" do not support "+" conditional support "\*" upgradeable

1. The true value will be affected by voltage and working temperature.

2. R: The length of heading baseline in meter.

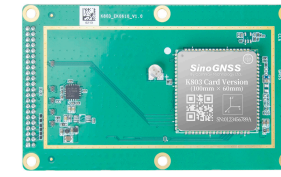
## BOARDS



**K803\_EK0405**



**K803\_EK0407**

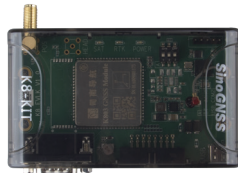


**K803\_EK0610**

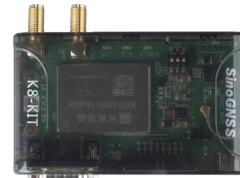


**K823\_EK0407**

	Size	40×50 mm	46×71 mm	60×100 mm	46×71 mm
<b>I/O</b>	Serial Port	4×LVCMOS	3×LVCMOS	3×LVCMOS, 1×RS232	3×LVCMOS
	PPS	1	1	1	1
	EVENT	2	2	2	2
	VARF	1	1	1	-
	ATOM	1	1	1	-
	SPI <sup>1</sup>	1	1	1	1
<b>Physical&amp; Electrical Specifications</b>	IO	2×22, 1.27mm	2×12, 2mm	2×22, 2mm	2×12, 2mm
	Weight(g)	15	20	34	24
	Input Voltage	+3.3-5.5V DC	+3.3-5.5V DC	+3.3-5.5V DC	+3.3-5.5V DC
	Power Consumption(w) <sup>1</sup>	1.2	1.2	1.2	1.8
	Support Module Type	K803S	K803 Lite(L1), K803 Lite, K803S, K803	K803S	K823



**EVK-K803**



**EVK-K823**

## EVALUATION KIT

	Size	73.5×100×22mm	73.5×100×22mm
<b>I/O</b>	Serial Port	1×RS232, 3×LVCMOS	1×RS232, 3×LVCMOS
	PPS	1	1
	EVENT	2	2
	BT <sup>2</sup>	1	1
	GPIO	2	2
<b>Physical&amp; Electrical Specifications</b>	IO	16PIN, 2.5mm	16PIN, 2.5mm
	Weight(g)		
	Input Voltage	+5-12V DC	+5-12V DC
	Power Consumption(w) <sup>1</sup>	1.5	2



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\* Upgradeable 1. The true value will be affected by voltage and working temperature. 2. Support Survey Master field software