



Wireless makes smarter

L20 Compact GPS Module with Super Sensitivity



Super sensitivity -163dBm tracking



Low Power Consumption



Extended Temperature Range -40 °C to +85 °C



High Accuracy



Anti-Jamming



SMD Type



RoHS Compliant



AGPS solution

The L20 can provide the high performance GPS engine module which is embedded the SIRFstarlVTM chip solution with SIRFawareTM technology. With 48 PRN channels, the L20 module acquires and tracks satellites in the shortest time even at indoor signal level. With a super compact profile of 16.0mm x 12.2mm x 2.4mm, This make it perfectly suited for automotive, and industrial applications product with strict size and cost requirements.

Advantages

- -163dBm tracking sensitivity
- Highest autonomous mode acquisition sensitivity, -148dBm
- 48 PRN channels
- Low tracking power consumption, 32mA (passive antenna)
- Removes in-band jammers up to 80 dB-Hz
- Tracks up to 8 CW jammers

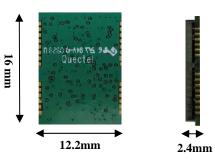
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General Specifications

L1 Band Re-	Channel Number 48 channels
ceiver	
(1575.42MHz)	C/A code

		SBAS	1	WAAS, EGNOS
Horizontal Position Ac	;-	Autonomous	<	2.5 m CEP
curacy		SBAS	<	2.0 m CEP
Velocity Ac curacy	;-	Without Aid	<	0.01 m/s
Acceleratio Accuracy		Without Aid	0	.1 m/s²
Timing Ac racy			<	100 ns
Reacquisiti Time	on		<	1 s
TTFF (Time To Fir	ret	Cold start		<35s
(Time To Fir Fix)		Warm start		<35s
		Hot start		<1s
		CGEE (Option	na	l) < 4.7s
Sensitivity	Au sit	itonomous Acqu ion	ui-	-148dBm
	Ho	ot start		-160dBm
	Tra	acking		-163dBm
	Na	avigation		160dBm
		Operating Temperature		-40℃ to 85℃
	Storage Temperature			-45℃ to 125℃
Dynamic Per- formance	Ma	aximum Altitude		< 18288 m
	Ma	aximum Velocity	/	514m/s
	Ma tio	aximum Acceler n	ra-	4 G
Dimensions				16.0mm×12.2mm ×2.4mm
Weight				Approx. 1.8g



Serial Interfaces

One UART	Adjustable:1200~ 115200 bps
	Default: 4800bps
One IIC	I2C up to 400 Kbps
I/O Voltage	2.7V ~ 3.6V
Protocols	NMEA
	OSP

Electrical Data

Power supply	2.7 to 3.6V
Power Acquisition	37mA (passive antenna)
Power Tracking	32mA (passive antenna)
Lower Power	<2mA
Antenna Type	Passive
Antenna power	External or internal VCC_RF

Contact Us

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