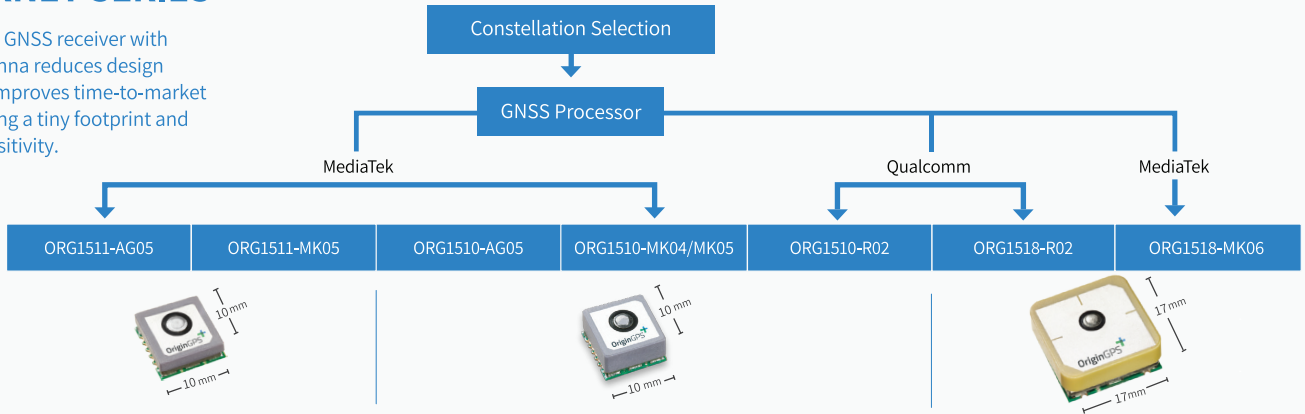


MODULE FEATURES



HORNET SERIES

Worlds smallest GNSS receiver with integrated antenna reduces design resources and improves time-to-market while maintaining a tiny footprint and unmatched sensitivity.



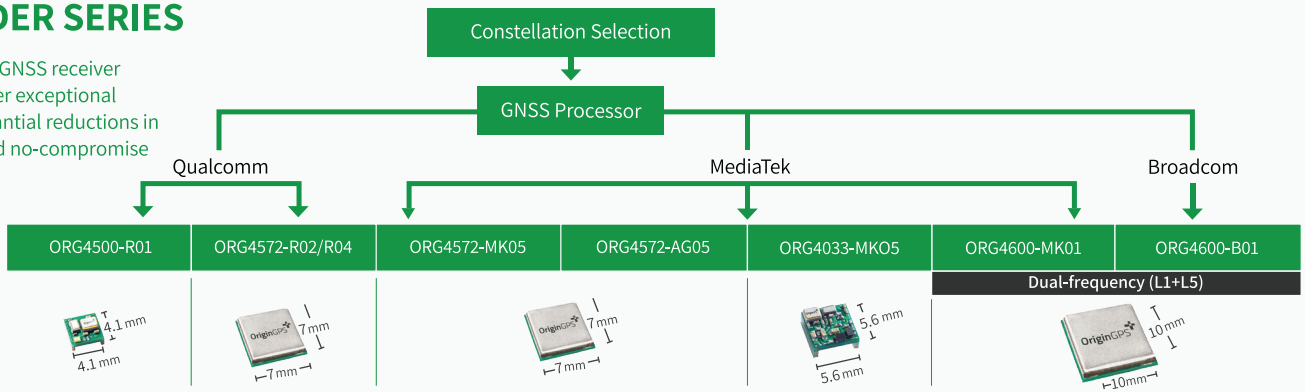
	ORG1511-AG05	ORG1511-MK05	ORG1510-AG05	ORG1510-MK04/MK05	ORG1510-R02	ORG1518-R02	ORG1518-MK06
Dimensions LxWxH (mm)	10x10x3.9	10x10x4.1	10x10x5.9	10x10x6.1	10x10x5.9	17x17x6.4	17x17x6.4
Weight (gr)	1.43	1.43	2.4	2.4	2.37	8	8
DC supply (VDC)	1.8	3.3	1.8	3.3	1.8	3.3	3.3
Interfaces	UART/I2C	UART/I2C	UART/I2C	UART/I2C	UART/SPI/I2C	UART/SPI/I2C	UART/I2C or UART/SPI
Accuracy (m)	<1.9	<1.9	<1.6	<1.5	<1.5	<1.5	<1.3
I/O voltage level	1.8	3.3	1.8	3.3	1.8	1.8	3.3
Update rate (Hz)	1-10	1-10	1-10	1-10	1-10	1-10	1-10
Internal memory	Flash	Flash	Flash	Flash	Flash	Flash	Flash
Constellation*	GPS+GAL+GLO+BDS+SBAS	GPS+GAL+GLO/BDS	GPS+GAL+GLO+BDS+SBAS	GPS+GAL+GLO/BDS	GPS+GAL+GLO/BDS	GPS+GAL+GLO/BDS	GPS+GAL+GLO/BDS
GNSS SOC	AG3352B	MT3333	AG3352B	MT3333	SiRFstar V B02	SiRFstar V B02	MT3333

*All OriginGPS GNSS modules support QZSS



SPIDER SERIES

Worlds smallest GNSS receiver provides designer exceptional flexibility, substantial reductions in product size, and no-compromise performance.



	ORG4500-R01	ORG4572-R02/R04	ORG4572-MK05	ORG4572-AG05	ORG4033-MK05	ORG4600-MK01	ORG4600-B01
Dimensions LxWxH (mm)	4.1x4.1x2.1	7x7x1.6	7x7x1.8	7x7x1.6	5.6x5.6x2.6	10x10x1.95	10x10x1.95
Weight (gr)	0.1	0.2	0.2	0.2	0.13	0.38	0.38
DC supply (VDC)	1.8	1.8 / 3.3	3.3	1.8	3.3	3.3	2-5.5
Interfaces	UART/I2C	UART/I2C	UART/I2C or UART/SPI	UART/I2C or UART/SPI	UART/I2C or UART/SPI	UART/I2C	UART/I2C
Accuracy (m)	< 1.5	< 1.5	< 1.6	< 1.7	< 2.5	< 0.8	0.1
I/O voltage level	1.8	1.8	3.3	1.8	3.3	1.8/2.8	1.8
Update rate (Hz)	1-5	1-10	1-10	1-10	1-10	1-10	1
Internal memory	ROM	Flash	Flash	Flash	Flash	Flash	Flash
Constellation*	GPS+GLO	GPS+GAL+GLO/BDS	GPS+GAL+GLO/BDS	GPS+GAL+GLO+BDS+SBAS	GPS+GAL+GLO/BDS	GPS+GAL+GLO+BDS+SBAS+HRNSS	GPS+GLO/GAL/IRNSS
GNSS SOC	SiRFstar V B01	SiRFstar V B02	AG3352B	AG3352B	MT3333	AG3335M	BCM47758

*All OriginGPS GNSS modules support QZSS



GPS / GNSS MODULES



Outstanding performance from first fix

The GPS/GNSS modules achieve improved time to first fix (TTFF) and highly accurate real-time positioning of approximately 1.5m, enhanced signal-to-noise ratio (SNR), and a position fix of 1sec (hot start).



The world's smallest form factor

The miniature GPS/GNSS modules integrate an LNA, SAW filter, TCXO, RTC crystal, and a power management unit, in addition to the GNSS SOC.



Ultra-sensitivity is key

OriginGPS proprietary Noise-Free Zone™ technology enhances sensitivity and noise immunity, both essential under challenging signal conditions such as those in urban canyons.



Integrated and simple to integrate

Designed for a simple integration process, the modules offer a complete system-in-package (SIP) with an industry-leading small surface-mount technology (SMT) footprint.



Low power consumption saves resources

Requiring a very short acquisition time for TTFF, OriginGPS modules consume substantially less battery power. In addition, all modules include a range of low power modes.



Multi-constellation

OriginGPS modules simultaneously support multi-constellations, enabling continuous tracking of all satellites in view.

Why choose an OriginGPS GPS/GNSS module?

+ Small form factor

Utilizing the smallest PCB space possible enables end product miniaturization and plenty of space to design.

+ Minimizes RF design challenges

Modules RF front-end, LNA, SAW filter, TCXO and RTC are all integrated, while Hornet modules also include an integrated antenna.

+ Superior RF performance

Noise Free Zone (NFZ) technology eliminates ground currents, lowering noise floor, which results in superior C /No - the leading performance indicator in GPS/GNSS receivers.

+ Fast TTM

A true plug-and-play solution with commands and data communicated over UART/I2C/SPI in standard NMEA format.

+ Design review included

Our technical team will review your schematic and board layout files. We are RF experts, so you don't have to be.

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