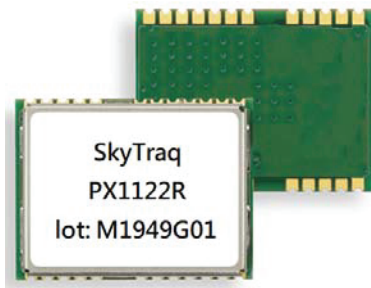


PX1120x PX1122x PX1125x PX1126x Multi-Band, Multi-Constellation GNSS Module



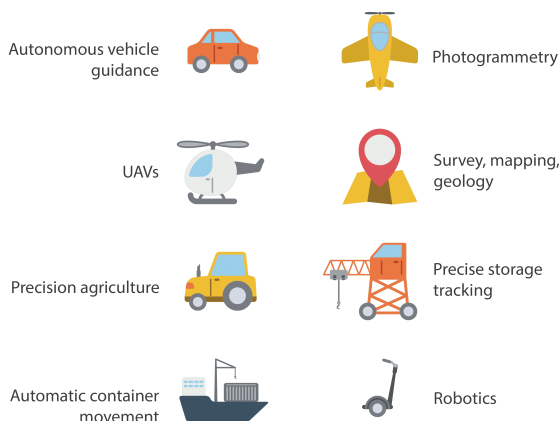
Key Features

- L1 / L2 / L5 / L6 frequency band capable
- GPS / Galileo / GLONASS / BeiDou / NavIC / QZSS / SBAS constellation capable
- GPS L1C & GLONASS L3OC signal capable
- Beidou3 B1C / B2a signal capable
- QZSS LEX signal capable
- SF-GNSS accuracy 2.0m CEP
- DF-GNSS accuracy < 1.0m CEP
- RTK accuracy 1cm + 1ppm
- Two SAW filters for out-band jammer removal
- Notch filter for in-band jammer removal
- 12mm x 16mm size
- Operating Voltage 3.3V +/-10%
- Operating Temp -40°C to +85°C
- RoHS and REACH compliant

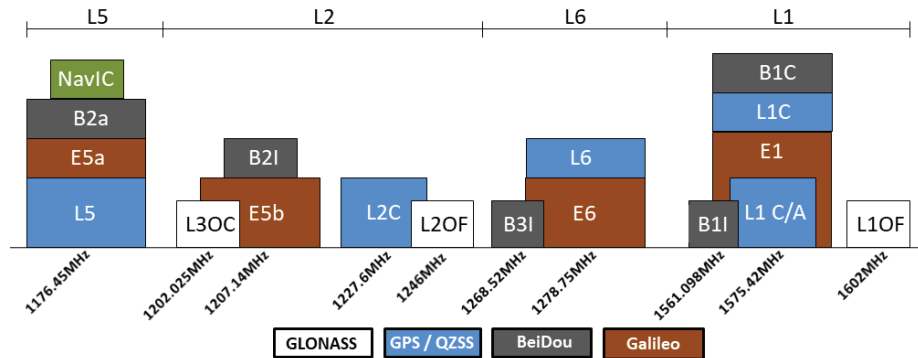
Module	Frequency Band
PX1120x	L1
PX1122x	L1/L2
PX1125x	L1/L5
PX1126x	L1/L6

Suffix	Functionality
C	Carrier Phase Raw Data
D	Dead-Reckoning
R	RTK
S	Standard Precision
T	Precision Timing

Applications



And also time measurement, emergency rescue and finding where you actually buried your treasure ...



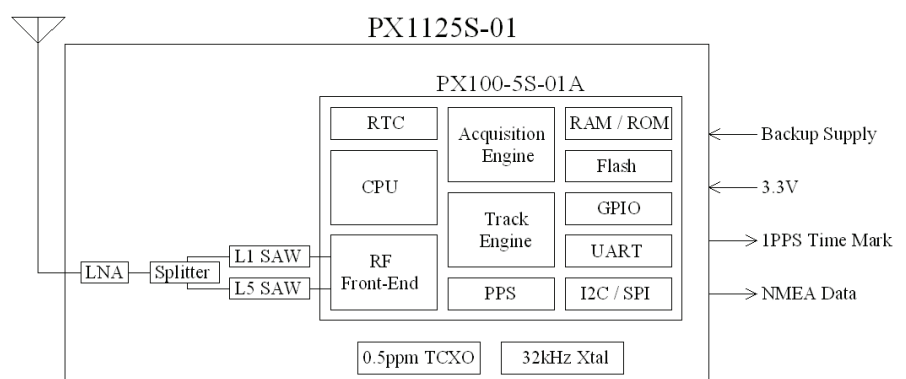
Product Overview

The new high-performance Phoenix engine delivers exceptional sensitivity and fast time-to-first-fix performance. Dedicated massive-correlator signal parameter search engine enables rapid search of all the available satellites and acquisition of weak signal.

With different options, PX112xx is capable of offering position accuracy ranging from meter-level, sub-meter level, decimeter-level, to centimeter-level. The dead reckoning (DR) option allows continuous 3D navigation even in signal blockage environments. The precision timing option enables precise frequency generation for GNSS disciplined oscillator applications.

Part number	Sensitivity in dBm	Power consumption in mA@3.3V
PX1120D	-148 cold start -165 tracking	Acquisition 45 Tracking 35
PX1120S	-148 cold-start -160 re-acquisition -165 tracking	Acquisition 42 Tracking 30
PX1122R	RTK Convergence < 10sec Reacquisition 1s	50mA
PX1125D-01	-148 cold start -165 tracking	Acquisition 45 Tracking 35
PX1125S-01	-145 / -144 GPS / NavIC Cold-start -154 / -153 GPS / NavIC hot-start -155 / -154 GPS / NavIC re-acquisition -165 / -156 GPS / NavIC tracking	35mA

Block Diagram NavIC + GAGAN / GPS



Module Product Selector Guide

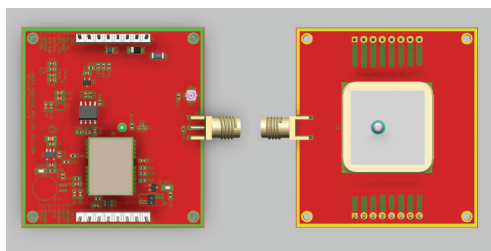
Model Number	GPS / QZSS					BeiDo					Galile				GLONAS			Navl	Application
Frequency Band	L1	L1C	L2	L5	L6	B1C	B1I	B2a	B2I	B3I	E1	E5a	E5b	E6	L1	L2	L3	L5	
PX1120S	V						V				U				U				L1 GNSS
PX1120D	V						V				U				U				L1 GNSS + DR
PX1122T	X		X				X		X		X		X		X	X			L1/L2 Precision Timing
PX1122R	V		V				V		V		U		U		U	U			L1/L2 RTK
PX1122C	V		V				V		V		U		U		U	U			L1/L2 Raw Data
PX1125S-01	V																	V	L5 NavIC + L1 GPS/GAGAN For India AIS-140
PX1125D-01	V																	V	L5 NavIC + L1 GPS/GAGAN + DR
PX1125S-02	U			U			U	U			U	U							L1/L5 Dual Frequency
PX1125D-02	U			U			U	U			U	U							L1/L5 Dual Frequency + DR
PX1125C	U			U			U	U			U	U							L1/L5 Raw Data
PX1126S-01	X				X														QZSS L6E Decoder for Asia-Pacific MADOCA PPP
PX1126S-02	Y				Y														QZSS L6D Decoder for Japan CLAS PPP
PX1126S-03											Z			Z					Galileo E6B Decoder for Galileo HAS PPP
		*				*											*		New Signal Usage Possible Contact Us !

Z : available in 2H 2020 after Galileo High Accuracy Service (HAS) Interface Control Document becomes available

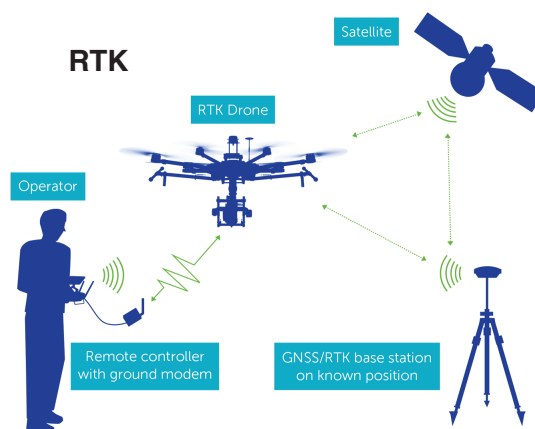
V : available
U : available in Q1 2020

X : available in Q2 2020
Y : available in Q3 2020

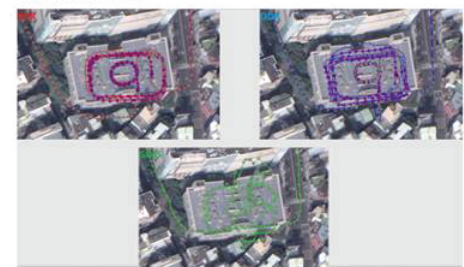
Nexcomm Break Out Board



RTK



Dead Reckoning



NEXCOMM Asia



Nexcomm Asia Pte Ltd

13 Braddell Tech, #06-04,
Toa Payoh, Lorong 8, Singapore 319261
Tel: +65 6891 2335
Fax: +65 6766 8117



nxm-enquiry@nexcomm-asia.com



www.nexcomm-asia.com

Bengaluru

M: +91 80 4203 2277

Hyderabad

M : +91 99639 92277

Delhi

M: +91 95912 31147

Pune

M: +91 88056 66002

Malaysia

Tel: +03 7652 2813

Indonesia

Tel: +6221 2934 9381

Soho Myanmar

Tel: 09 400467496

China

Tel: +86 13923 707318

Soho Vietnam

HP: 0905474745