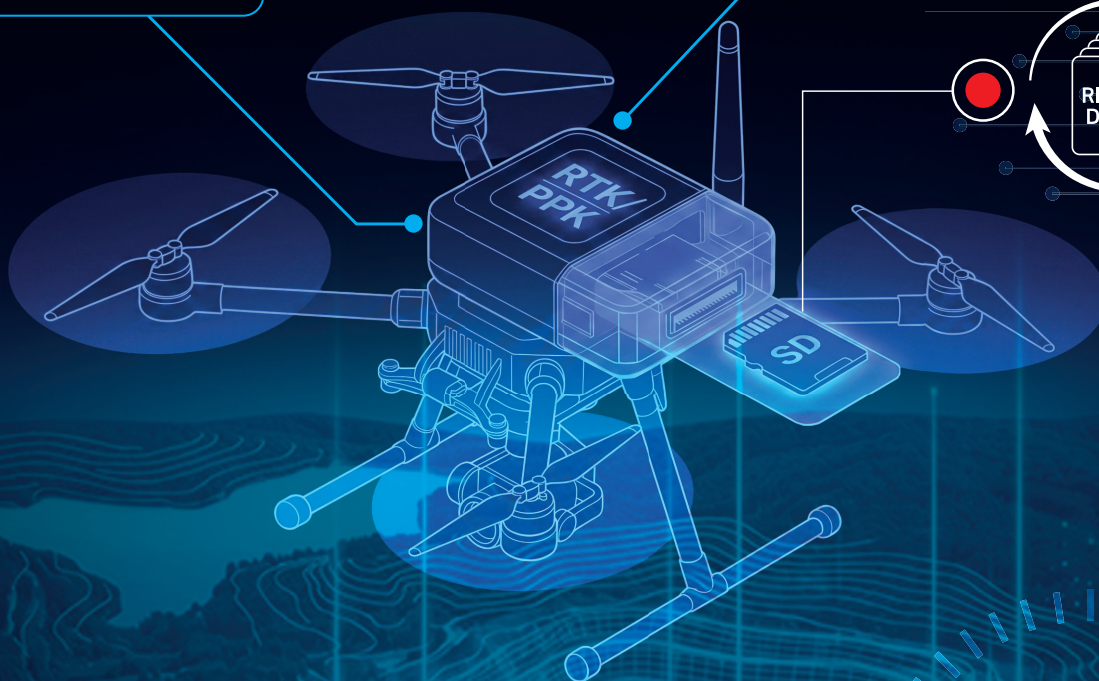


航空測量の限りない自由 PPK,自動 RINEXロギング (SYN-3200)

通信途絶の心配ゼロ！
後処理(PPK)で
cm級の精度を実現

飛行開始と同時に
SDカードへ自動RINEXロギング



Auto
Logging



3D
Mapping



GCP
Reduction



Workflow
Optimization

主な活用分野

- ・PPK後処理によるcm級の高精度測量
- ・SDカードベースのRINEX自動ロギング
- ・シャッタートリガー連動による撮影時点の位置情報記録
- ・航空写真測量およびオルソ画像の作成
- ・森林・農業・海洋・建設現場など、通信圏外エリアでの測量
- ・リアルタイムRTKによるドローン高精度航法(オプション)
- ・非可視圏の飛行および長距離ミッション対応(オプション)
- ・グローバルGNSS RTKサービス連携対応(Onocoy、Swift Navigation、SoftBankなど)



▲ SYN-3200
デュアルアンテナ版

SYN-3200

- cm-level precision surveying with PPK post-processing
- Automatic RINEX logging via SD card
- Image capture position recording via shutter trigger integration
- Aerial photogrammetry and orthomosaic mapping
- Surveying in communication shadow areas such as forestry, agriculture, marine, and construction sites
- Real-time RTK precision navigation for drones (Optional)
- BVLOS flight support (Optional)
- Connection support with Global GNSS RTK service providers (Onoco, Swift Navigation, Softbank, etc.)



Dual Antennas version

Mosaic-H Specifications

Channel	448 channels
Frequency	GPS (L1, L2) BDS (B1, B2, B3) GLONASS (L1C/A, L2C/A) Galileo (E1, E5b) QZSS (L1C/A, L1C/B, L2C) SBAS (EGNOS, WAAS, GAGAN, MSAS)
Data Format	NMEA 0183
Cold Start	<45s
RTK (RMS)	Horizontal : 0.6cm + 0.5ppm Vertical : 1cm + 1ppm
Stand alone	Horizontal : 0.4m Vertical : 0.7m
Heading Accuracy	Antenna separation : 1m >> 0.15° Antenna separation : 5m >> 0.03°
Time Accuracy	5 ns
Velocity Accuracy (RMS)	3 cm/s
Data Update Rate	100 Hz (Measurements only) 50 Hz (Standalone, SBAS, DGPS + attitude) 20 Hz (RTK + attitude)

Power monitoring Sensor_ INA237 Specifications

Offset voltage	±50 μ V
Gain error	±0.3%
Power monitoring accuracy	1.6% full scale, -40°C to +125°C
Operational current	640 μ A (typical)

IMU Sensor_ ICM-42688 Specifications

Supply voltage VDDID	1.71V~3.6V
Supply voltage VDD	1.71V~3.6V
Gyroscope Noise	2.8 mdps/ $\sqrt$ Hz
Accelerometer Noise	70 μ g/ $\sqrt$ Hz
User selectable Gyro Full-scale range (dps)	± 15.6/31.2/62.5/125/250/500/1000 /2000

PHYSICAL

Dimension	65 x 67 x 17 mm
Weight	91g
Operating Temperature	-20° C to +60° C
Storage Temperature	-40° C to +85° C

Electrical Specifications

Operating Voltage Range	+9 ~ 60 V DC
Power Consumption	2W

Geomagnetic Sensor_BMM350 Specifications

Supply voltage VDDID	1.72 ~ 3.6 V
Supply voltage VDD	1.72 ~ 1.98V
Average typical current consumption	200 μ A @ 100 Hz in normal mode
Magnetic field range (all axes)	±2000 μ T
Maximum sampling rate	400 Hz

Barometer/Thermometer Sensor_ BMP390 Specifications

Operating range (full accuracy)	Pressure : 300 ~ 1250hPa
Supply voltage VDDID	1.2V ~ 3.6V
Supply voltage VDD	1.65V ~ 3.6V
Average typical current consumption (1 Hz data rate)	3.2 μ A at 1 Hz
Temperature coefficient offset (25°C~40°C at 900Pa)	±0.6Pa/K
Maximum sampling rate	200 Hz

LTE module_EG25-G Mini PCIe Specifications

Frequency bands (MHz)-G	LTEFDD : B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28; LTETDD : B38/39/40/41; WCDMA : B1/2/4/5/6/8/19; GSM : B2/3/5/8
LTE data rates (Mbps)	LTE-FDD: Max. 150 (DL)/Max. 50 (UL); LTE-TDD: Max. 130 (DL)/Max. 30 (UL)
Supply voltage range	3.0 V ~ 3.6 V, typ. 3.3 V

INTERFACE

Connection Port	UART 1/2, I2C, CAN Serial (for MAVLink) GPS I/O (micro USB), USB-C
Correction Data format	RTCM v3.x(RTK)
Indicator	r,P,N,R, RTCM, RTK, POWER
MicroSD Card	FAT32, up to 32GB

Contact



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【輸入販売元／総代理店】

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