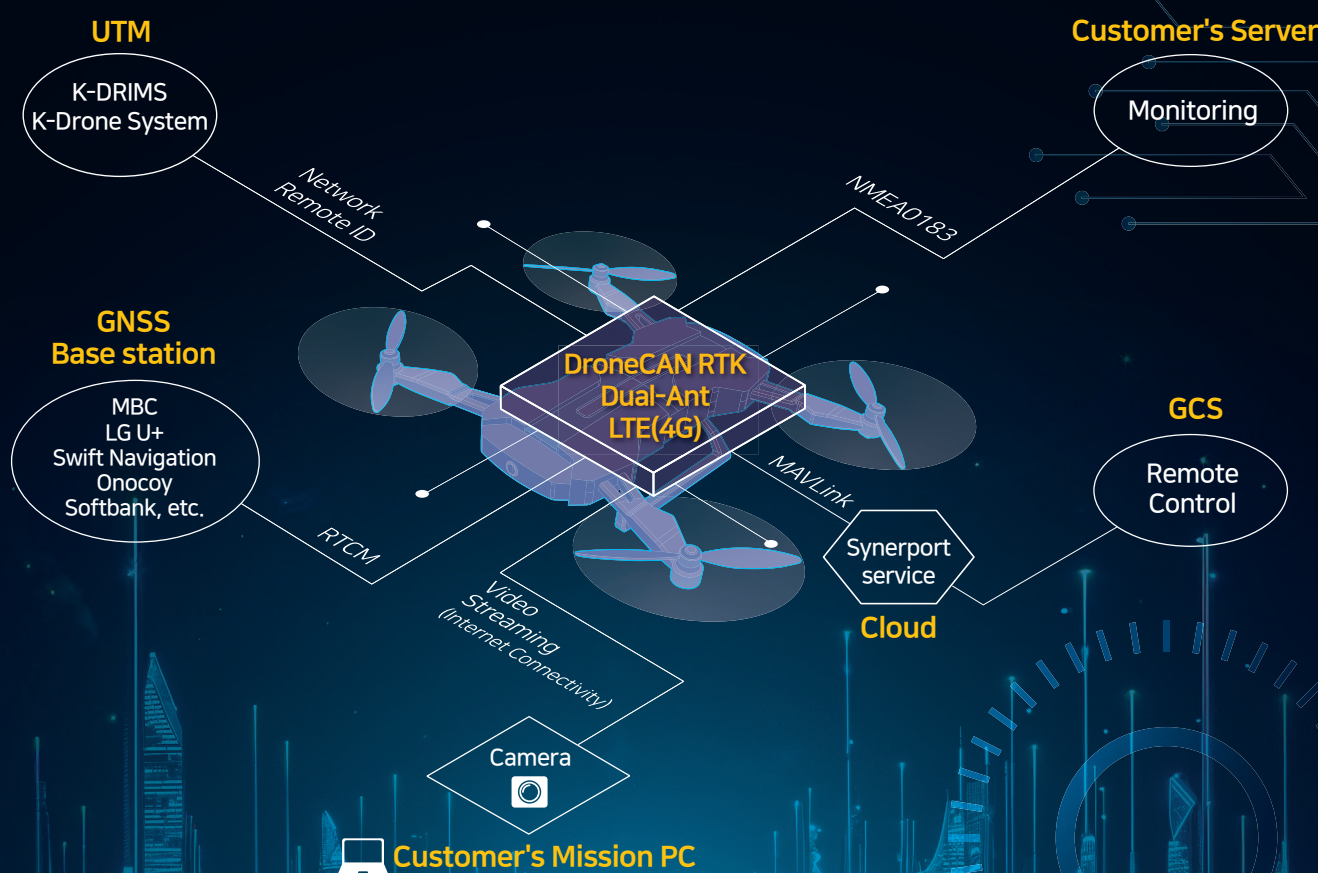


All-In-One DroneCAN RTK receiver (SYN-3100)

*LTE(4G)、DroneCAN、Dual Antenna、
Network Remote IDなど、全ての機能を
統合したDroneCAN RTK 受信機*



主な活用分野

- 精密離着陸
- 精密管制
- 遠隔制御
- 目視外飛行をサポート
- Global GNSS RTK サービス企業との連携をサポート (Onocoy, Swift Navigation, Softbank, etc.)
- 精密ホバリング
- 測量、航空撮影
- UTM連携管制
- ビデオ転送(インターネット共有)



▲ SYN-3100
Dual Antennas version

SYN-3100

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- 精密ホバリング
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Dual Antennas version

UM982 Specifications

Channel	1408 channels
Frequency	GPS (L1C/A, L2C, L2P(Y), L5) BDS (B1I, B2I, B3I, B1C, B2b) GLONASS(G1, G2) Galileo (E1, E5a, E5b, E6) QZSS (L1C/A, L2C, L5, L6) SBAS (L1C/A)
Working Temperature	-40 °C ~ + 85 °C
Data Format	NMEA 0183
Cold Start	<30s
RTK (RMS)	Horizontal: 0.8cm+1ppm Vertical: 1.5cm+1ppm
Heading Accuracy	0.1°/1 m baseline
Time Accuracy	20 ns
Velocity Accuracy (RMS)	0.03 m/s
Data Update Rate	Dual antenna 20 Hz (RTK + Heading)

Power monitoring Sensor_ INA237 Specifications

Temperature grade	-40°C to +125°C
Offset voltage	±50 μV
Gain error	±0.3%
Power monitoring accuracy	1.6% full scale, -40°C to +125°C
Operational current	640 μA (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/√Hz
Accelerometer Noise	70 μg/√Hz
User selectable Gyro Full-scale range (dps)	± 15.6/31.2/62.5/125/250/500/1000 /2000

PHYSICAL

Dimension	66 x 68 x 12.8 mm
Weight	77g

Electrical Specifications

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

Geomagnetic Sensor_BMM350 Specifications

Operating range	-40 to 85°C
Supply voltage VDDID	1.72 ~ 3.6 V
Supply voltage VDD	1.72 ~ 1.98V
Average typical current consumption	200μA @ 100 Hz in normal mode
Magnetic field range (all axes)	±2000μT
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)	3.2μA 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
Operating temperature	-35°C ~ +75°C
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

Contact



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