

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 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	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	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
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



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