

ujy	Designator	Datasheet
Microcontroller	STM32F405RGT6	<a href="https://www.st.com/content/ccc/resource/technical/document/datasheet/ef/92/76/6d/bb/c2/4f/f7/DM00037051.pdf/files/DM00037051.pdf/jcr:content/translations/en.DM00037051.pdf">https://www.st.com/content/ccc/resource/technical/document/datasheet/ef/92/76/6d/bb/c2/4f/f7/DM00037051.pdf/files/DM00037051.pdf/jcr:content/translations/en.DM00037051.pdf</a>
Flash Memory	W25Q32JVZPIQ (Quad SPI)	<a href="https://www.lcsc.com/datasheet/lcsc_datasheet_2304140030_Winbond-Elec-W25Q32JVZPIQ_C571260.pdf">https://www.lcsc.com/datasheet/lcsc_datasheet_2304140030_Winbond-Elec-W25Q32JVZPIQ_C571260.pdf</a>
Static RAM	IS61LV5128AL-10TLI (Parellel)	<a href="https://www.lcsc.com/datasheet/lcsc_datasheet_1806101621_ISSI-Integrated-Silicon-Solution-IS61LV5128AL-10TLI_C40493.pdf">https://www.lcsc.com/datasheet/lcsc_datasheet_1806101621_ISSI-Integrated-Silicon-Solution-IS61LV5128AL-10TLI_C40493.pdf</a>
Inertial MU (ACCEL, GYRO, MAGNO)	ICM-20948 (I2C)	<a href="https://invensense.tdk.com/wp-content/uploads/2016/06/DS-000189-ICM-20948-v1.3.pdf?ref_disty=digikey">https://invensense.tdk.com/wp-content/uploads/2016/06/DS-000189-ICM-20948-v1.3.pdf?ref_disty=digikey</a>
Barometric Pressure Sensor	LPS22HBTR (I2C or SPI)	<a href="https://www.st.com/content/ccc/resource/technical/document/datasheet/bf/c1/4f/23/61/17/44/8a/DM00140895.pdf/files/DM00140895.pdf/jcr:content/translations/en.DM00140895.pdf">https://www.st.com/content/ccc/resource/technical/document/datasheet/bf/c1/4f/23/61/17/44/8a/DM00140895.pdf/files/DM00140895.pdf/jcr:content/translations/en.DM00140895.pdf</a>
Temperature Sensor	TMP107DSGR (I2C SMBus)	<a href="https://www.ti.com/lit/ds/symlink/tmp1075.pdf">https://www.ti.com/lit/ds/symlink/tmp1075.pdf</a>
Global Positioning System	MAX2771ETI (SPI)	<a href="https://www.analog.com/media/en/technical-documentation/data-sheets/MAX2771.pdf">https://www.analog.com/media/en/technical-documentation/data-sheets/MAX2771.pdf</a>
RF Transceiver	S2-LPQTR (SPI)	<a href="https://www.st.com/content/ccc/resource/technical/document/datasheet/group3/bd/26/62/81/3d/86/4d/15/DM00339133/files/DM00339133.pdf/jcr:content/translations/en.DM00339133.pdf">https://www.st.com/content/ccc/resource/technical/document/datasheet/group3/bd/26/62/81/3d/86/4d/15/DM00339133/files/DM00339133.pdf/jcr:content/translations/en.DM00339133.pdf</a>
5V to 3.3V & Inverse Regulator	L99VR01JTR (SPI)	<a href="https://www.mouser.com/datasheet/2/389/199vr01-2325810.pdf">https://www.mouser.com/datasheet/2/389/199vr01-2325810.pdf</a>
DC-DC Converter	MPM3810GQB-33-Z (None)	<a href="https://www.monolithicpower.com/en/documentview/productdocument/index/version/2/document_type/Datasheet/lang/en/sku/MPM3810GQB/document_id/2083">https://www.monolithicpower.com/en/documentview/productdocument/index/version/2/document_type/Datasheet/lang/en/sku/MPM3810GQB/document_id/2083</a>
Battery Management System	STC3115AIQT (I2C)	<a href="https://www.st.com/content/ccc/resource/technical/document/datasheet/24/05/c6/c7/0c/72/41/39/DM00066800.pdf/files/DM00066800.pdf/jcr:content/translations/en.DM00066800.pdf">https://www.st.com/content/ccc/resource/technical/document/datasheet/24/05/c6/c7/0c/72/41/39/DM00066800.pdf/files/DM00066800.pdf/jcr:content/translations/en.DM00066800.pdf</a>
Analog-to-Digital Converters (HIGH-RES)	MCP3221A6T-E/OT (I2C)	<a href="https://ww1.microchip.com/downloads/en/DeviceDoc/20001732E.pdf">https://ww1.microchip.com/downloads/en/DeviceDoc/20001732E.pdf</a>
Digital-to-Analog Converters (HIGH-RES)	MCP4726A0T-E/CH (I2C)	<a href="https://ww1.microchip.com/downloads/en/DeviceDoc/22272C.pdf">https://ww1.microchip.com/downloads/en/DeviceDoc/22272C.pdf</a>
Pulse Width Modulation Motor Driver	A4935KJPTR-T (None)	<a href="https://www.mouser.com/datasheet/2/1115/Allegro_62524_A4935_Datasheet-3464793.pdf">https://www.mouser.com/datasheet/2/1115/Allegro_62524_A4935_Datasheet-3464793.pdf</a>
Crystal Oscillator	ECS-2333	<a href="https://ecsxtal.com/store/pdf/ecs-2325-2333.pdf">https://ecsxtal.com/store/pdf/ecs-2325-2333.pdf</a>
Piezo Buzzer	CPT-1117-83-SMT-TR	<a href="https://www.cuidevices.com/product/resource/cpt-1117-83-smt-tr.pdf">https://www.cuidevices.com/product/resource/cpt-1117-83-smt-tr.pdf</a>
2.94+0.91+2.6+4.79+0.89+0.34+12.98+1.91+0.99+2.25+2.06+2.31+0.93+5.24+0.78 (We're getting digital servos for the sake of accuracy)		