

GPS Drone (7-inch / S500): Bill of materials

Concept assembly guide derived from the staged build plan. Not a certified engineering drawing. Prices are estimates (Oct 2026); nothing here is a purchase.

ID	Stage	Part	Qty	Price	Buy link
G1	Stage 1	7-inch carbon LR frame (Chimera7 class)	1	\$45	Amazon search
G2	Stage 1	2806.5 1300KV 6S motors	4	\$80	Amazon search
G3	Stage 1	SpeedyBee F405 V4 BLS 60A stack	1	\$75.99	SpeedyBee
G4	Stage 1	Matek M10Q-5883 GPS/compass	1	\$42.99	Boulder MultiRotor (Matek)
G5	Stage 1	RadioMaster Pocket ELRS + RP2 receiver	1	\$80	Amazon search
G6	Stage 1	7-inch tri-blade props, 3 sets	1	\$10	Amazon search
G7	Stage 1	Pi Zero 2 W + Camera Module 3 + microSD + 5V 3A BEC	1	\$60	Raspberry Pi
G8	Stage 1	Remote ID broadcast module (Holybro or FAA-listed)	1	\$40	Amazon search
G9	Stage 1	2x 6S 1500-1800 mAh LiPo, XT60	1	\$70	Amazon search
G10	Stage 2	Printed TPU/PETG quick-swap sled + Kevlar strap	1	\$12	Amazon search
G11	Stage 3	S500 frame kit (optional big frame)	1	~\$375 stage	Amazon search

Links marked 'Amazon search' open a search for that exact part spec (no specific listing chosen yet, no affiliate tag). Vendor links come from the existing build brochures.