

UAS

Freedom UA



To support the armed forces of Ukraine in the fight against Russian invaders, it is planned to assemble an UAV based on a Talon-type glider or its functional analogue. To achieve this goal, assistance is needed in the supply of the following components:

PLANE KIT

<i>NO</i>	<i>NAME</i>	<i>LINK FOR CLARIFICATION</i>	<i>NOTE</i>
1.	Wingspan V-tail FPV Plane Aircraft Kit V3	https://usa-m.banggood.com/X-UAV-Talon-EPO-1718mm-Wingspan-V-tail-FPV-Plane-Aircraft-Kit-V3-p-986526.html	Or a functional analogue
2.	dragon_2_1200mm_kit	https://flymod.net/item/dragon_2_1200mm_kit	Or a functional analogue

WIRING/HARNESS

NO	NAME	LINK FOR CLARIFICATION	NOTE
1.	Interface converter MAX3232-MINI-BOARD	http://www.kosmodrom.com.ua/el.php?name=MAX3232-MINI-BOARD	
2.	Connector GX12-6 (KLS15-225-M12-6F1)	https://www.rcscomponents.kiev.ua/product/razem-gx12-6-cls15-225-m12-6f1_111580.html	
3.	Connector GX12-6 (KLS15-225-M12-6M1)	https://www.rcscomponents.kiev.ua/product/razem-gx12-6-cls15-225-m12-6m1_111581.html	
4.	Connector GX16-10 (KLS15-225-M16-10F1)	https://www.rcscomponents.kiev.ua/product/razem-gx16-10-cls15-225-m16-10f1_85898.html	
5.	Connector GX16-10 (KLS15-225-M16-10M1)	https://www.rcscomponents.kiev.ua/product/razem-gx16-10-cls15-225-m16-10m1_85899.html	
6.	Connector GX20-10 (KLS15-225-M19-10F1)	https://www.rcscomponents.kiev.ua/product/razem-gx20-10-cls15-225-m19-10f1_162068.html	
7.	Connector GX20-10 (KLS15-225-M19-10M1)	https://www.rcscomponents.kiev.ua/product/razem-gx20-10-cls15-225-m19-10m1_162067.html	
8.	Wire assembly superflexible 12awg (680 / 0,08) silicone black	https://voron.ua/uk/catalog/030057--provod_montazhnyy_super_gibkiy_12awg_680008_silikonovyy_chernyy	
9.	Wire assembly superflexible	https://voron.ua/uk/catalog/030056--provod_montazhnyy_super_gibkiy_12awg_680008_silikonovyy_krasnyy	

NO	NAME	LINK FOR CLARIFICATION	NOTE
	12awg (680 / 0,08) silicone red		
10.	Silicone wire 20 AWG - 0.5 square meters. mm (100x0.08) 1 m Red	https://radioprofile.prom.ua/p1040925956-provod-silikonovyj-awg.html	
11.	Silicone wire 20 AWG - 0.5 square meters. mm (100x0.08) 1 m Black	https://radioprofile.prom.ua/p1040925959-provod-silikonovyj-awg.html	
12.	XT90 connectors male/female	https://arduino.ua/prod1710-razemi-xt90-papa-i-mama	
13.	EC5-CONNECTOR	http://www.kosmodrom.com.ua/el.php?name=EC5-CONNECTOR	
14.	NCDG-02 connectors	http://www.kosmodrom.com.ua/el.php?name=NCDG-02	
15.	connectors NCDG-03	http://www.kosmodrom.com.ua/el.php?name=NCDG-03	
16.	Connectors KLS1-XL2-2.54-04-MH	https://www.rcscomponents.kiev.ua/product/cls1-xl2-2-54-04-mh_98429.html	
17.	Connectors NCDW-02	http://www.kosmodrom.com.ua/el.php?name=NCDW-02	
18.	Connectors NCDW-03	http://www.kosmodrom.com.ua/el.php?name=NCDW-03	
19.	Connectors KLS1-XL2-2.54-02-FH	https://www.rcscomponents.kiev.ua/product/cls1-xl2-2-54-02-fh_99403.html	

NO	NAME	LINK FOR CLARIFICATION	NOTE
20.	Connectors KLS1-XL2-2.54-03-FH	https://www.rcscomponents.kiev.ua/product/cls1-xl2-2-54-03-fh_99405.html	
21.	Connectors KLS1-XL2-2.54-04-FH	https://www.rcscomponents.kiev.ua/product/cls1-xl2-2-54-04-fh_99407.html	
22.	Connectors KLS1-XL2-2.54-MT (male)	https://www.rcscomponents.kiev.ua/product/cls1-xl2-2-54-mt_99411.html	
23.	Connectors NCDG-T (female)	https://www.rcscomponents.kiev.ua/product/ncdg-t_39961.html	
24.	The Cube Standard Cable Set	https://www.cubepilot.com/#/home	
25.	Mauch 040 sensor cable: PL	https://www.mauch-electronic.com/apps/webstore/products/show/7594538	
26.	10 pairs, new Amass banana connector, 4 mm	https://aliexpress.ru/item/1005002675793248.html?item_id=1005002675793248&sku_id=12000021662269105&spm=a2g2w.productlist.0.0.5aa24653Xg6EUC	
27.	ONPOW 22mm tri-color RGB LED switch	https://aliexpress.ru/item/32875512799.html?spm=a2g2w.productlist.0.0.40a9789fs8udvX&sku_id=65511359056	
28.	M24308 / 4-1F connector	https://www.digikey.com/en/products/detail/itt-cannon-llc/M24308-4-1F/2487313	
29.	M24308 / 2-1F connector	https://www.digikey.com/en/products/detail/itt-cannon-llc/M24308-2-1F/2487287	

ONBOARD EQUIPMENT

<i>NO</i>	<i>NAME</i>	<i>LINK FOR CLARIFICATION</i>	<i>NOTE</i>
1.	Autopilot The Cube Orange Standard Set (ADS-B Carrier Board)	https://www.3dxr.co.uk/autopilots-c2/the-cube-aka-pixhawk-2-1-c9/cube-autopilot-and-combos-c10/cubepilot-the-cube-orange-standard-set-with-ads-b-carrier-board-p3509	Or a functional analogue
2.	GPS Receiver Here 3	https://www.cubepilot.com/#/home	Or a functional analogue
3.	Mauch 002 current and voltage sensor: PL-100 Sensor Board with CFK enclosure	https://www.mauch-electronic.com/apps/webstore/products/show/7588528	
4.	R3008SB servo signal receiver (T-FHSS / S.Bus2)	https://futabausa.com/product/r3008sb/	Or a functional analogue
5.	Electric motor Cobra C-4120/22 Brushless Motor, Kv = 430	https://www.cobramotorsusa.com/motors-4120-22.html	Or a functional analogue
6.	Electronic speed controller AT 75A 6S	https://store.tmotor.com/goods.php?id=904	Or a functional analogue
7.	The propeller is folding 15 * 8	https://store.tmotor.com/goods.php?id=1143	Or a functional analogue

<i>NO</i>	<i>NAME</i>	<i>LINK FOR CLARIFICATION</i>	<i>NOTE</i>
8.	Propeller blade 15 * 8	https://store.tmotor.com/goods.php?id=1143	Or a functional analogue
9.	Servo Atlas DH16 FTD Digital HV Servo (High Torque)	https://hyperion-world.com/en/p1772879-hp-dh16-ftd-14223	Or a functional analogue
10.	Servo Atlas DS13 Digital Micro Servo TMB	https://hyperion-world.com/en/p1772902-hp-ds13-tmb-14009	Or a functional analogue
11.	DP0601 RTK GNSS (XL F9P)	https://store-drotek.com/891-rtk-zed-f9p-gnss.html	Or a functional analogue
12.	U-blox ANN-MB multi-band GNSS antenna	https://store-drotek.com/909-u-blox-ann-mb-multi-band-antenna.html	Or a functional analogue
13.	ARK RTK GPS	https://arkelectron.com/product/ark-rtk-gps/?fbclid=IwAR1LF9XjZYi1gRm76jAEMqgFGMHix8BB-VOhblj3yEJa1XloeSnLG2leLPI	Or a functional analogue

DATA LINKS

<i>NO</i>	<i>NAME</i>	<i>LINK FOR CLARIFICATION</i>	<i>NOTE</i>
1.	Sinosun SDR400 telemetry modem	http://www.sinosun.cn/index.php?m=home&c=Lists&a=index&tid=46	Or a functional analogue
2.	Ip65 433 MHZ antenna set	https://www.cable-antenna.com/sale-12309368-ip65-waterproof-2dbi-433-mhz-antenna-gsm-rubber-duck-radio-antennas-black.html	Or a functional analogue
3.	Analog video transmitter 4TBS UNIFY PRO32 HV (MMCX)	https://www.team-blacksheep.com/products/prod:unifypro32_hv0	Or a functional analogue
4.	Antenna to TBS TRIUMPH PRO video transmitter (SMA STUB)	https://www.team-blacksheep.com/products/prod:triumph_pro_smastub	Or a functional analogue
5.	HDMI to RCA AV / CVSB L / R converter	https://aliexpress.ru/item/1005001713220476.html?sku_id=12000017261884320&spm=a2g2w.productlist.0.0.6c4d388adnmA1k	Or a functional analogue
6.	HDMI to AV converter	https://ru.banggood.com/HDMI-to-AV-Converter-1080P-for-HD-DVD-VHS-DVD-Players-TV-Boxes-HD-PVR-HD-DVR-HD-Video-Recorders-PS3-for-Xbox-360-Game-Console-p-1899958.html?imageAb=1&cur_warehouse=CN&rmmds=search&akmClientCountry=UA&akmClientCountry=UA	Or a functional analogue

NO	NAME	LINK FOR CLARIFICATION	NOTE
7.	ROTG02 UVC OTG 5.8G 150CH receiver	https://www.aliexpress.com/item/32845517933.html?spm=a2g0o.productlist.0.0.4cbf64c58pEfRS&algo_pvid=88f9f298-1b10-4752-b3ba-2ed87ac0e1fe&algo_exp_id=88f9f298-1b10-4752-b3ba-2ed87ac0e1fe-1&pdp_ext_f=%7B%22sku_id%22%3A%2266607288994%22%7D	Or a functional analogue
8.	Analog Video RX and TX 1.2	https://aliexpress.ru/item/32877919306.html?item_id=32877919306&sku_id=12000018579481776&spm=a2g2w.productlist.0.0.d35d3802kqTTCI	Or a functional analogue
9.	Analog Video RX and TX 5.8	https://aliexpress.ru/item/1005001462162015.html?item_id=1005001462162015&sku_id=12000016214359389&spm=a2g2w.productlist.0.0.4f7f20efOZSYZB	Or a functional analogue
10.	5.8 GHz FPV system 40 channels 600 MW, FPV mini camera, 7 inch TN HD Fpv 5.8 GHz 48 channel screen, for FPV racing drone	https://aliexpress.ru/item/1005002043659029.html?spm=a2g2w.productlist.0.0.d35d3802kqTTCI&sku_id=12000018527497009	Or a functional analogue

BATTERIES

<i>NO</i>	<i>NAME</i>	<i>LINK FOR CLARIFICATION</i>	<i>NOTE</i>
1.	Samsung INR18650-35E 3500 mAh - 13A	https://keeppower.com.ua/18650/simple-14500-26650/18650-second/samsung-inr18650-35e-3500mah	Or a functional analogue
2.	Black XT90E-M Battery Plug Gold-Plated Male Connector	https://aliexpress.ru/item/1005002589488702.html?item_id=1005002589488702&sku_id=12000021291506592&spm=a2g2w.productlist.0.0.5e685a096X27Sa	Or a functional analogue

OTHER EQUIPMENT

NO	NAME	LINK FOR CLARIFICATION	NOTE
1.	Futaba T12K	https://www.theworldmodels.com/store/product/13706/Futaba-T12K-Mode-2-w-R3008SB-Receiver-12-channel-2-4GHz-S-T-FHSS-Radio-System	Or a functional analogue