



George combines the flexibility and over a decade's worth of open-source innovation in UAS autopilots with the robustness of a certifiable DAL-C hardware and a DAL-C safety and sensor processor. George has the aircraft.



George is built on the trusted and proven CubePilot autopilot. Migrate your existing Ardupilot or PX4 software and configuration to George's robust DO-254 DAL-C hardware.

Lightweight and low power consumption

UAS have limited energy resources that need to support your mission. George is engineered specifically to minimize size, weight, and power consumption for longer flight times and larger payloads.

Certifiable and tested to aviation standards

We've brought the same rigorous safety standards to UAS that have ensured aviation as the safest form of transportation. George is engineered to DO-160G and MIL-810H environmental standards, and designed to meet DO-178C / DO-254 DAL C.

SkyLine Cloud-Based C2 Radio

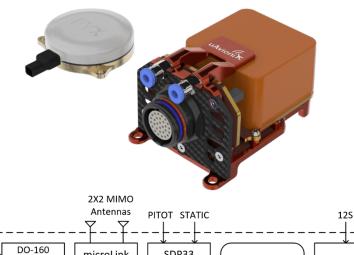
George has an integrated microLink 2x2 MIMO Radio for ISM band operations Begin communicating to ground radios for secure and reliable BVLOS missions.

Detect and Avoid (DAA) Ready

Integrated pingRXpro ADS-B IN to see nearby aircraft. For high altitude and mission-critical operations, add the ping200X transponder to be seen by surrounding aircraft and for access to controlled airspace.

Works with truFYX, The most reliable GPS

George seamlessly integrates with **truFYX**, uAvionix's TSO-C145e GPS. When the credibility and integrity of your position source matters, you can trust truFYX.



DO-160 EIA-232 DO-160 EIA-232	microLink C2 Radio	SDP33 Airspeed RM3100 Compass	cube	DO-160 Power Supply
George G2			DO-160 9 PWM	ADC

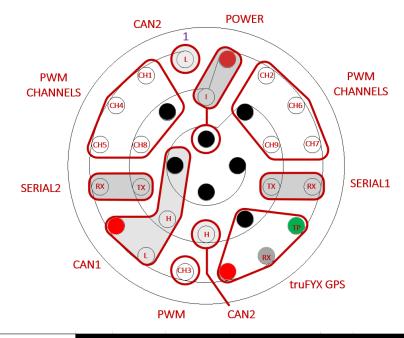
Specification	Value	
	2S to 12S	
Input Voltage/Power	2.5W	
Size	44x40x63mm	
Weight	68 grams	
Operating Temp	-10° to 55° C	
Inte	rnal Peripherals	
Core	cubeOrange	
Control Radio	uAvionix microLink	
ADS-B	uAvionix pingRXpro	
Compass	3 axis RM3100	
Airspeed	SDP33	
Ext	ernal Interfaces	
Servo/ESC Outputs	9	
GPS Input	truFYX NMEA + PPS	
RS232 Serial IO	2	
UAVCAN IO	2	
ADC Inputs	2	
C	Options	
truFYXmicro TSO- C145e GPS Sensor	UAV-1005511-001	
microLink skyStation2	UAV-1005539-001	
ADS-B antenna	UAV-1004675-002	
microLink antenna	UAV-1004675-001	
XT90 SERIES Adapter	UAV-1005476-001	







Electrical Specification

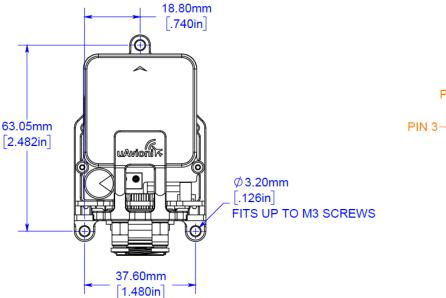


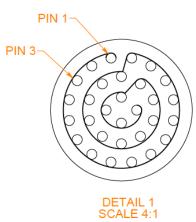
	LEMO D	Pin Name	Description	Resource	10	Level
	1	CAN2 L	CanBus	Resource	10	3.3V
	2	IO CH1	PWM CH1	Servo / ESC	Output	
	3	IO CH4	PWM CH4	Servo / ESC	Output	
	4	IO CH5	PWM CH5	Servo / ESC	Output	
	5		TELEM 2 Rx	ZPX-B Mode 5 IFF	Input	EIA/TIA-232
	6	5V CAN1			Power	5V
	7	CAN1 L	CanBus		IO	3.3V
	8	IO CH3	PWM CH3	Servo / ESC	Output	3.3V
	9	5V SERIAL4	_		Power	5V
	10	SERIAL4 RX	GPS PVT data	truFYX GPS	Input	3.3V
	11	FYX PPS	GPS PPS		Input	3.3V
	12	SERIAL1 RX	TELEM 1 Rx	SkyLink C-band C2	Input	EIA/TIA-232
	13	IO_CH7	PWM_CH7	Servo / ESC	Output	3.3V
	14	IO_CH6	PWM_CH6	Servo / ESC	Output	
EXTERNAL	15	IO_CH2	PWM_CH2	Servo / ESC	Output	
CONNECTIONS	16	V BUS	Aircraft Power		Power	2S-12S
	17	CURRENT			Input	3.3V
	18	GND	Aircraft Ground		Power	
	19	IO_CH8	PWM_CH8	Servo / ESC	Output	3.3V
	20	SERIAL2_TX	TELEM 2 Tx	ZPX-B Mode 5 IFF	Output	EIA/TIA-232
	21	CAN1_H	CanBus		10	3.3V
	22	CAN2_H	CanBus		IO	3.3V
	23	GND	Aircraft Ground		Power	
	24	SERIAL1_TX	TELEM 1 Tx	SkyLink C-band C2	Output	EIA/TIA-232
	25	FMU_CH1	PWM_CH9	Servo / ESC	Output	3.3V
	26	GND	Aircraft Ground		Power	
	27	GND	Aircraft Ground		Power	
	28	GND	Aircraft Ground		Power	
	29	GND	Aircraft Ground		Power	
	30	GND	Aircraft Ground		Power	
			SERIAL3 RX	MicroLink C2 Radio	Input	3.3V
			SERIAL3 TX		Output	
			SERIAL5 RX	pingRXpro ADS-B	Input	3.3V
INTERNAL			I2C1 SCL	RM3100 Compass	IO	3.3V
CONNECTIONS			I2C1 SDA		10	3.3V
			I2C2 SCL	SDP33 Airspeed Sensor	10	3.3V
			I2C2 SDA		10	3.3V
			VOLTAGE		Input	3.3V

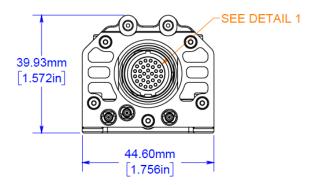


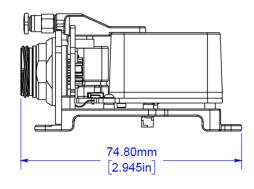


Mechanical Specification













Example eVTOL Configuration

eVTOL				
Parameters	Resource	Description	Parameter	Value
	PWM_CH1	Starboard ⊟evon Servo	FUNCTION	80:VTailRight
	PWM_CH2	Port Aileron Servo	FUNCTION	4:Aileron
	PWM_CH3	Pusher Motor	FUNCTION	70:Throttle
	PWM_CH4	Starboard Aileron Servo	FUNCTION	4:Aileron
	PWM_CH5	Starboard Forward Motor 1	FUNCTION	33:Motor1
	PWM_CH6	Port Forward Motor 3	FUNCTION	35:Motor3
PWM_CH	PWM_CH7	Port Aft Motor 2	FUNCTION	34:Motor2
	PWM_CH8	Starboard Aft Motor 4	FUNCTION	36:Motor4
	PWM_CH9	Port ⊟evon Servo	FUNCTION	79:VTailLeft
	SERIAL_4	GPS Data	BAUD	115:115200
			PROTOCOL PROTOCOL	5:GPS
SEF	SERIAL_3	TELEMETRY	BAUD	57:57600
			PROTOCOL PROTOCOL	1:MAVIink1
	SERIAL_5	ADS-B	BAUD	57:57600
			PROTOCOL PROTOCOL	1:MAVIink1
	CURRENT	Current ADC input	BATT_CURRENT_PIN	15:CubeOrange
	VOLTAGE	Voltage ADC Input	BATT_VOLT_PIN	14: Cube Orange
	12C1	RM3100 Compass		·
	1202	SDP33 Airspeed		

