

Flightcell SmartHUB Specifications

HIGH SPEED INTERFACES

6x USB 2.0

• USB-A front ports x2	1 fast charge, 1 normal charge*	*With fast charge option. Both data capable.
• USB-C front port x1		
• USB rear connectors x3	For wiring in external USB ports or USB devices	

GENERAL INTERFACES

ARINC 429 RX x2	Digital inputs x 3 (e.g. oil pressure, collective, squat)
RS232 x 2	Power input x 1 (for remote power control)
CAN x 1	Multi-function notification output (e.g. indicate device is recording)

NETWORKING

10/100/1000 Ethernet x 6 (1 front, 5 rear)
 Certified WiFi 802.11ac/a/b/g/n (optional)

AUDIO

Audio input for radio/intercom audio recording
 Embedded mic for ambient cockpit recording

CPU

1.8GHz Quad Core ARM Cortex-A53
 4GB DDR4 memory

STORAGE

Ruggedized internal removable SD Card slot
 (micro SD card)

POSITION & ORIENTATION

GPS	Internal barometric sensor, capable of logging:
6-Axis MPU (Accelerometer, Gyro)	• Full GPS position data, altitude and speed @ 1 Hz
Impact detection	• Pressure altitude
Ability to configure and log flight exceedances	• Vertical Rate (GPS and barometric), Turn Rate
	• Pitch, Roll, G-Force

POWER

28V DC	
14W nominal, maximum 54W (2 x USB fast charge)	14W without fast charge

MOUNTING FASTENERS

DZUS mount, 4 x M5 threaded mounts on top/bottom

ENVIRONMENTAL

DO160G

SMARTHUB DIMENSIONS

Weight	750 grams	26.5oz
Width	146.0 mm	5.75"
Height	50.6 mm	1.99"
Depth	154.9 mm	6.10"

Flightcell Camera Specifications

INTERFACES

1080P Ultra low light camera, minimum illumination 0.01lux

Maximum resolution 1920x1080P, 2.0 Megapixel

Maximum frame rate 30fps

Compression format H264/MJPEG / YUV2 (YUYV)

FOV: 100 degree no distortion lens

CAMERA DIMENSIONS

Weight	150g	5.3oz
Width	50.0mm	1.97"
Height	38.0mm	1.50"
Depth	85.0mm	3.35"

Note: Product specifications are correct as at July 2022. Specifications are subject to change without notice.

ABOUT FLIGHTCELL

Setting quality standards since 2000, Flightcell is a leader in the global aviation communications systems and hardware industry, leveraging strong strategic relationships with aircraft manufacturers, industry partners and government.

Flightcell's trusted products are highly configurable for operational requirements, with a focus on providing solutions to rotorcraft and turbo prop fixed wing aircraft that specialise in aerial firefighting, air medical, search and rescue, law enforcement and military.

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