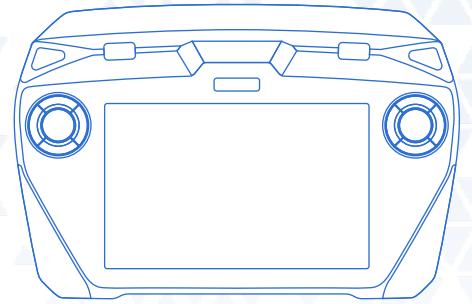




Atlas ULTRA GCS

Technical reference datasheet



PHYSICAL CHARACTERISTICS

Dimensions (w x d x h)	266 x 176 x 66 mm
Weight	915 grams
Enclosure	Impact resistant PC-ABS, UL94V-0
Ingress protection	IP65, all-weather resistant

OPERATIONAL ENVIROMENT

Operating temperature	-20°C to +55°C
Relative humidity	5 ~ 95%, non-condensing

THERMAL MANAGEMENT

Heat dissipation	Central thermal core design
Adaptive active cooling	3x variable speed fans
Built-in heating	Yes, heat-up in 15min at -20°C

BATTERY AND CHARGING

Battery capacity	84 Wh
Runtime	4 hours
Charging input	USB-C with Power Delivery
Max. charging power	93W (4.9A at 19V)
Charging time to 100%	~55 min

CONNECTORS

USB connectivity	USB-C PD and USB-A 3.0
Display output	HDMI 2.0, 4K@60fps
Storage and SIM	NanoSIM/MicroSDXC combo tray
Expansion	Rear-mounted AtlasDOCK module bay
Optional antenna	SMA external antenna connector

ACCESSORIES

Power	Extended battery module (+ 4hrs operation)
Connectivity	Ethernet module
Connectivity	SFP optical fibre transceiver module
Port expansion	MIL port replicator module

DISPLAY

Display	7 inch, capacitive multi-touch
Resolution	1920 x 1200, 16:10 aspect ration
Max. brightness	2000 nits, sunlight readable
Technology	IPS, full panel lamination
Front cover glass	Gorilla® Glass, 5.5 Mohs hardness
Secondary status screen	1.04 inch OLED

MAINBOARD

CPU	Octa-core MT8395-based SoC
RAM	8GB DDR4
Storage	256GB UFS, MicroSDXC up to 2TB
Hardware acceleration	H.264/H.265 transcoding
Operating system	Linux, optional Android 11

INPUTS, SENSORS AND HAPTICS

Thumbsticks	Dual drift-free hall effect thumbsticks
Finger wheels	Dual self-centering trigger wheels
Customisable buttons	10 quick access buttons
Physical kill-switch	Yes, dedicated button + interlock
Haptic feedback	Dual independent haptic motors
Camera	Integrated front-facing camera
Positioning	GPS + GLONASS + Galileo
Onboard sensors	Compass, Gyro, Thermometer

COMMUNICATIONS

Primary radio	Atlas ATR-200
Standard (civilian) freq. range	2.4 - 2.4835 Ghz
Full extended freq. range	2.2 - 2.7 Ghz
Frequency hopping	Yes, including smart scan
Primary antenna	Internal 6dB, smart-reflector
Radio range	<10.5 km with internal antenna
External antenna connection	SMA for ext. patch
Mobile data	4G LTE, 5G optional modem
Wireless radios	802.11 a/b/g/n Wi-Fi, Bluetooth 4.2
Wired comms.	Ethernet and SFP modules