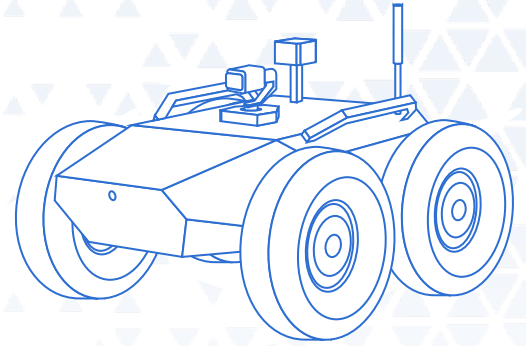




Atlas ROVER

Technical reference datasheet



PHYSICAL CHARACTERISTICS

Dimensions (w x l x h)	410 x 635 x 285 mm
Weight (incl. battery and payload)	29 kg
Enclosure	1.5mm galvanized steel
Ingress protection	IP44, weather protected
Chassis finish	Scratch resistant powder coating

OPERATIONAL ENVIRONMENT

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

BATTERY AND POWER

Battery module	Atlas Rover Battery pack
Operating voltage	36V
Capacity	15.1 Ah (545Wh)
Battery management system	Yes, Smart battery
Battery heater	Yes, automatic
Charger	210W
Charge time	2h 45min

PROPULSION

Motor configuration	Quad-motor drivetrain
Max power	1300 W
Battery range	45 km
Max speed	24 km/h (6.6 m/s)
Max cargo weight	110 kg
Position hold	E-brake

PAYLOAD SUPPORT

Visor FF	Thermal VGA (640 x 480) at 30fps
Kalos 120	3x zoom, 4K (3840 x 2160) at 30fps
Argus M20	20x zoom, FHD (1920 x 1080) at 30fps

MAINBOARD AND STORAGE

Embedded flight controller	Atlas RCM
Onboard video transcoding	Yes, hardware accelerated
Onboard object tracking	Yes, AI image co-processor
Supported codecs	H.264 / H.265
Onboard storage	MicroSDXC up to 2TB
Secure storage	Yes, AES256 encryption

ONBOARD SENSORS

GNSS	U-blox 10 (GPS + GLONASS + Galileo)
Obstacle avoidance	Forward-facing ToF lidar
Positional sensors	Compass, Thermometer

COMMUNICATIONS

Primary radio	Atlas ATR-200 @ 1W (30dBm)
Encryption	WPA3 SAE (CCMP)
AtlasMESH Compatible	Yes
Standard (civilian) freq. range	2.4 - 2.4835 Ghz
Full extended freq. range	2.2 - 2.7 Ghz
Frequency hopping	Yes, including smart scan
Onboard antenna	5dBi
Radio range	>9.5 km LOS
Certification	CE, FCC

ACCESSORIES

Charger	Atlas Hi-power charger
Extended range antenna	Antenna mast extender