

AUTONOMOUS DOCKING STATION

AtlasNEST

24/7 READINESS. AUTOMATIC BATTERY SWAP.

A docking station that lands an AtlasPRO, swaps its battery and sends it back up in about two minutes, with nobody on site.

Four batteries charge inside the shell, each to full in an hour. IR-lock assist brings the aircraft down onto the deck, the lift carries it in, and AtlasRELAY holds the command link out to 8 km. It runs from an ordinary 120 – 230 V socket and draws up to 240 W while charging.


[VIEW PRODUCT PAGE](#)
70 s

Take-off response

120 s

Swap and relaunch

4

Batteries on board

1 hour

To a full charge

8 km

Command range

AUTONOMOUS LANDING

Lands and launches itself

IR-lock precision landing assist brings the aircraft down onto the deck on its own, and sends it back up in about 70 seconds. No pilot on site.



BATTERY SWAPPING

Swapped in two minutes

The deck carries the aircraft inside, a fresh pack goes in and it flies again — typically 120 seconds, with nobody touching it.



24/7 READINESS

Always one ready to fly

Four packs charge in rotation, each to full in an hour, so there is a charged aircraft waiting whenever the call comes.



EASY TO INTEGRATE

Drops into your network

Wi-Fi, Ethernet or LTE, AtlasMESH when you need the reach, and an ordinary 120 – 230 V socket. It needs a 200 × 300 cm pad and nothing else.



SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Autonomous docking station

STATION

Dimensions, stowed (w × l × h)	160 × 96 × 42 cm
Dimensions, deployed (w × l × h)	250 × 110 × 52 cm
Weight	<85 kg, two-person carry

PERFORMANCE

Take-off	Automated, typical response 70 s
Landing	Automated, IR-lock precision landing assist
Battery swap and launch	Typically 120 s
Launch type	Vertical take-off and landing
Battery charge time	100 % in 1 hour
Batteries on board	4

OPERATIONAL ENVIRONMENT

Operating temperature	−20 °C to +30 °C
With thermal management	−40 °C to +55 °C
Ingress protection	IP53 (designed as)
Internal systems	Climate control with humidity and temperature regulation

COMMUNICATIONS

AtlasRELAY frequency range	2.2 – 2.7 GHz
AtlasPRO command range	Up to 8 km, line of sight
Connectivity	Wi-Fi, Ethernet 100 Mbit/s min., LTE module
Transmitted data	AES-128 / AES-256 encryption
Onboard link	WPA3 SAE (CCMP)
AtlasMESH	Available

SITE REQUIREMENTS

Power source	120 – 230 V, 50 – 60 Hz, up to 240 W when charging
Setup pad	200 × 300 cm
Internet connection	100 Mbit/s minimum, for remote access
Maintenance	10 000-cycle or 3-month check

OPTIONS

Thermal management	External AC unit or heater
Backup power	60 min battery
Remote operation	LTE modem



See AtlasNEST at work

Book a live demonstration or talk to our team about pricing and availability.

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