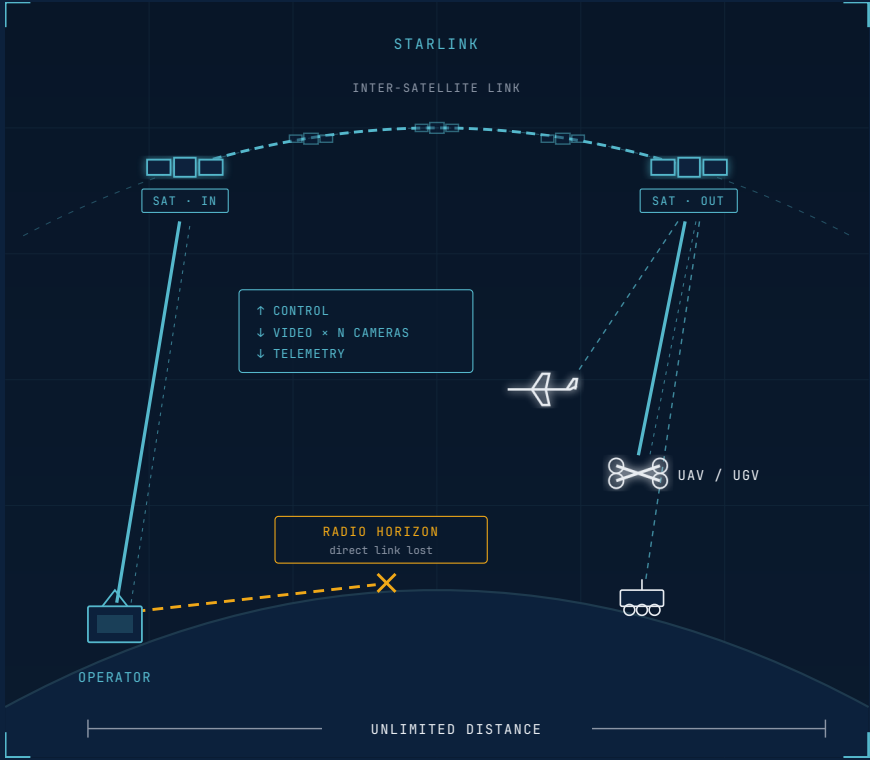


LAB 254 · STARGATE · BEYOND RADIO HORIZON

Operate beyond the radio horizon

Satellite control, multi-stream video and telemetry for unmanned systems.

StarGate is a Lab 254 satellite communication system for unmanned platforms. It carries remote control, telemetry and multiple video streams over Starlink or cellular networks (5G / 4G / LTE) – so the operator can be at any distance from the platform, with minimal latency.



OPERATOR-TO-PLATFORM
DISTANCE · NO LIMIT

1 link

CONTROL · TELEMETRY ·
MULTI-CAMERA VIDEO

MULTIROTOR · FIXED-WING · UGV

Link: two-way, over Starlink or 5G / 4G / LTE

Carries: control · telemetry · multiple video streams

Air platforms: integrates with Tracer terminal guidance

One link. Multiple video streams. Full control.



CONTROL
Remote control over the StarGate link.



TELEMETRY
Flight and system telemetry in real time.



MULTI-CAMERA VIDEO
Several cameras, several video streams at once.



LOW LATENCY
Architecture optimized for minimal video and command delay.



One system. Multiple platforms.



MULTIROTOR UAV
Quadcopters and other multirotor platforms.



FIXED-WING UAV
Aircraft-type unmanned aerial vehicles.



UGV
Unmanned ground robotic systems.

One communication architecture across the fleet – no separate remote-control system for each vehicle type.



Terminal guidance

On air platforms, StarGate works together with Tracer – Lab 254 automatic terminal guidance. The operator flies the platform, receives video and selects the target over the StarGate link; once the target is locked, terminal guidance holds the track through the final phase of flight.



01
Satellite control



02
Target lock



03
Terminal guidance

Capabilities

SATELLITE CONNECTIVITY	link over the Starlink network
CELLULAR CONNECTIVITY	5G · 4G · LTE
REMOTE OPERATION	no distance limit between operator and platform
MULTIPLE VIDEO STREAMS	simultaneous video from several cameras
REAL-TIME TELEMETRY	continuous access to platform telemetry
REMOTE CONTROL	commands over the StarGate link
LOW LATENCY	minimized delay for video and control
MULTI-PLATFORM	quadcopters · fixed-wing UAVs · UGVs
TERMINAL GUIDANCE	automatic, for air platforms (Tracer)

One unmanned platform – at any distance from the operator.

STARGATE BY LAB 254 · GO BEYOND THE RADIO HORIZON

Lab 254

Full specs available on request

Contact – Lab254@proton.me

