

Halo

For Drone BVLOS Flights & Ground Unmanned Systems



Drones, UAVs, UAS



Ground Vehicles



Autonomous Robotics

Elsight's Halo: When completion of your mission relies on robust, secure, & continuous connectivity

Combine multiple LTE & 5G cellular communications, SatCom, and RF technologies to one secure pipeline in a bonded link for a continuous, robust connectivity for optimal transmission of your unmanned systems. Take full control of prioritizing the quality-of-service (QoS) of your video stream, telemetry or command & control data. In every mission, Elsight's Halo enables you to control the costs incurred for using each of the links.

Halo's immeasurable benefits

- Portable, low weight, power and size for an optimized SWaP
- Field-proven success in BVLOS missions of more than 200,000 flight hours
- Enables certification for BVLOS flights
- Direct MAVLink support

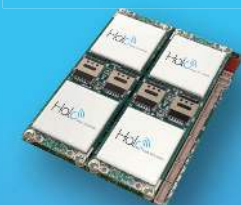
Halo's outstanding features

- Integration of cellular communications (3G/LTE/5G) with any direct RF and SATcom links
- Fully configurable (e.g. link prioritization, redundancy, buffer size, and others)
- Real-time network prediction
- 3D reception coverage mapping for route planning
- Cybersecurity enclosed:
 - Data security package splitting mechanism
 - Encryption up to AES-256-CBC
- Allsight cloud management platform (also available on-prem)
 - Multi-tier, multi-tenant environment
- FAA accepted built-in network and broadcast REMOTE ID
- Secure Over-the-Air (OTA) updates

There's a Halo for every mission!



2 x LTE + 1 x 5G
Halo 5G Card
Less than 100 grams



4 x LTE
Halo LTE Card
Less than 100 grams



Boxed Halo
Supports MIMO

Your mission is too critical to rely on a single link solution

Each option on its own has its failings. Creating a bond with multiple communications options delivers the connectivity reliability you need!

Direct RF Link	Satellite Links	A Single Cellular Link	Failover Solutions (RF/Cellular)
Easily jammed, no redundancy	Usually expensive, no redundancy	Can be jammed, no redundancy	Offer some redundancy, but with communication drops
Requires line of sight between the unmanned vehicle and the operator	Requires open skies, bulky and heavy, high latency and low bandwidth	Reception "holes" in altitude and behind objects	Reception "holes" behind objects, low bandwidth and no link nor latency optimization

ELSIGHT HALO: For Connection Confidence

Field-proven, offers full redundancy, high BW, low latency, cybersecurity and operational safety.

By aggregating all available IP links to a secure bonded pipeline, unmanned systems (ground and aerial) are ensured operational continuity for mission-critical outcomes.

When BVLOS missions are easily enabled, the entire industry benefits. ElSight is dedicated to serving these sectors:



Specifications

RID broadcast	FAA accepted
Ethernet	2 Ports of 1 GB
USB	1 x USB 2.0 1 x MICRO USB for debug (internal)
WIFI & Bluetooth	Dual Band WiFi (2.4/5 GHz) 802.11 a/b/g/n/ac BT 2.1 +EDR, BT3.0, BT 4.2 (BLE)
Cellular	Embedded 5G/4G LTE/3G bands depending on the region
Serial	2 x RS232/422/485 1 x CAN BUS 1 X UART
Positioning Systems Supported	GPS GLONASS Galileo BeiDou
Data Security	Data Security Package splitting mechanism Encryption up to AES-256-CBC
Advanced Communication	6 th Sense bonding technology VPN: OpenVPN L2/3
Environmental Conditions	Operating: -10°C to 75 °C
Power Input	DC 9V – 30V
Power Consumption	6.5W (Avg.), 10W (Max)

Certified by



verizon

T Mobile

PTCRB

AT&T



US Cellular

CCPA compliance



elsight

SECURED CONNECTION CONFIDENCE

For more information:
info@elsight.com or visit www.elsight.com

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