

# Halo

## Communication Platform

Reinventing real-time data connectivity

The world's most compact, next-generation bonding technology, Elsight Halo provides the highest bandwidth, highly secured communication for the transmission of live data, in real-time, from anywhere and to anywhere, while on-the-move, or on-the-ground.

5G ready, our unique algorithm enables the bonding of multiple 3G/4G/LTE networks, Wi-Fi and/or satellite as part of a broadband solution that revolutionizes connectivity.



### High Bandwidth

The Halo series allows multiplexing of multiple communication links, thus increasing the overall bandwidth available for the transmission of heavy data and video, with ultra-low latency.



### High Level Security

Halo generates a complete secured network tunnel that enables safe and encrypted transmission.



### High Reliability & Redundancy

Halo automatically detects failed communication channels and immediately transfers the information via an alternate available channel, in real-time.



### High Adaptability

Halo is equally well-fitted for data transmission on-the-move, or while fixed in place.

## FEATURES

- Connects to any computer, docking station, IP camera or USB device, enabling instant communication
- The fully Cloud-managed solution can serve as a WiFi hotspot, and can easily be set up from any mobile device
- With a 3-hour internal battery, the Halo is compact, has ultra-low power consumptions, and serve as a gateway for any device
- H.265/264 adaptive video encoding for adaptive video transmission

## HALO 200/400 - OEM SOLUTION

Whether it integrates with drones, autonomous vehicles, or handheld devices, always-on connectivity is crucial. The Halo 200/400 is an ideal fit for all devices requiring embedded, reliable, and secured two or four connectivity.

Featuring two or four embedded cellular modules, WiFi and Bluetooth, Halo 200/400's ultra-compact design allows the most advanced bonding technology to be integrated within any platform that moves.

## HALO 2000/4000 - STANDALONE DEVICE

The Halo 2000/4000 is a standalone external device featuring two or four cellular modules, built-in WiFi, a video encoder and internal battery, enabling up to three hours of seamless data connectivity.

Its small size maximizes your reach with optional video transmission capabilities, while providing decision makers with the complete picture of any scene, unmatched security, transmission, and highest availability for any of your transmission needs.

## SPECIFICATIONS

Core Network Device		Video add-on	
<b>Aggregation</b>	Transmitting through all connected channels at the same time	<b>Video Interface</b>	Mini HDMI 1x3G-SDI (BNC)
<b>Advanced Communication</b>	Fail over between links Load- Balancing VPN: OpenVpn L2/3	<b>Video Resolution</b>	30/60 FPS 30/50/60 FPS
<b>Security</b>	Data packet splitting mechanism Encryption up-to AES-256-CBC	<b>Video Compression</b>	H.265/264 adaptive video encoding
<b>Cellular Interfaces</b>	<u>North America:</u> LTE: Bands 2/4/5/122/13/14/66/71 3G: Bands 2/4/5  <u>EJ/Asia:</u> LTE: Bands 1/3/7/8/20/28A 3G: Bands 1/3/8 2G: Band 3/8	<b>Audio Interface</b>	Embedded HDMI audio Embedded SDI audio 3.5mm analog line in
<b>Network Interfaces</b>	WiFi: AP & Client 802.11 a/b/g/n (2.4/5Ghz) Bluetooth: V4.0 GPS, GLONASS, BD, GALILEO, QZSS		
<b>Interfaces</b>	Web Gui for system set up and configuration Elsight Mobile App for device setup On/Off smart switch USB Type C for power and data		
General Specifications			
<b>Power Input</b>	USB-C connector Internal rechargeable Li-Ion battery with up to 3Hr working time		
<b>Environmental Conditions</b>	Operating: -10°C to 45°C		
<b>Dimensions</b>	3.9"W x 3.1"D (100 x 80mm) 3.5 oz. (100g)		

**Halo**  
by  **elsight**