

# HELIOS HYBRID

Sophisticated tracking device for remote and isolated area.  
Works anywhere, anytime, combining satellite and cellular connectivity.



Construction Mining Security Valuable Cargo Remote Areas

Vediafi and Starcom Systems quality with 24/7 availability.

- Innovative integration of Helios cellular with an Iridium satellite module
- Customized events through Vediafi and Starcom Systems propriety event generator
- Personalized alerts via Text message and E-mail
- Works 24/7. Anywhere, anytime
- Worldwide detailed maps
- Geo-fencing alerts



Vediafi and Starcom's superior technology - built to work better and last longer

**STARCOM**  
Systems | Above All



## Helios Hybrid - General Specifications:

CPU	Type Memory	NXP ARM Cortex-M3 Static RAM: 128kb ROM: 34kb Flash: 2048kb
Power	Power Voltage Range Consumption	8v-36v (supported in same unit) 3mA in low power mode up to 120mA in working mode can reach up to 300mA if battery is charged
* Backup Battery (optional)	Type Power	Lithium-ion Polymer 3.75V, 950 mAh
Cellular Communication  Satellite Modem (external device)	GSM/GPRS - default Optional Modems Antenna type Data channels Protocol Connection	Quad Band (850, 900, 1800, 1900) UMTS/HSPA+, CDMA/1xRTT/EV-DO, LTE Built-in (concealed) SMS & TCP/IP Propriety - encrypted RS232
Location	Type Time to First Fix (TTFF) Positioning Accuracy Antenna type	GPS, GLONASS (optional) 1 sec (hot start) 2.5m CEP (50%) Velocity: 0.2m/s (50%) Built in (concealed)
COMM Port	Type Speed	RS232 115,200bps (default)
I/Os	Digital Inputs Digital Outputs Analog Inputs Pulses Counter CANBUS	Max 8 Max 4 Max 3 Max 1 Included
Accelerometer	Type Purpose	3-Axis, 20 mg accuracy, up to 8g Identify and report events of impact and accident
Alarm System	Immobilizer Disarming Options	External - Gradual Stop Key Pad, Dallas Key, Remote Control, RF Keypad
Dimensions	Size  Weight	21H x 60W x 107L (mm) 0.82H x 2.36W x 4.21L (inch) 150 (grams) 5.29 (Oz)
Environmental	Operating Temp Storage Temp Humidity	-20°C (-40°F) to +60°C (140°F) -40°C (-40°F) to +85°C (185°F) Max 90%