

HELIOS SERIES – IRIIDIUM + CELLULAR

Helios Hybrid

4G + SAT

Tracker for remote and isolated areas. All Helios M Pro features plus an Iridium satellite modem – connected 24/7, anywhere on Earth.



Key features

-  Iridium satellite and cellular connectivity combined
-  Works 24/7, anywhere, anytime
-  CAN bus, pulse counter, up to 8 digital inputs
-  Alarm system with immobilizer
-  Custom events via the Helios event generator
-  Geofencing, SMS and e-mail alerts
-  Satellite used only without GSM – lower costs



WEIGHT
150 g (5.29 oz)



DIMENSIONS
21 × 60 × 107 mm

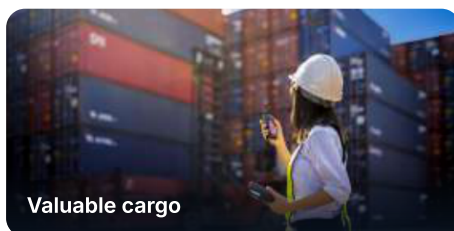


POWER SUPPLY
8 – 36 V



OPERATING TEMP.
-40 °C ~ +60 °C

Applications



Technical specifications

Communication	
Cellular	Quad-band GSM/GPRS (850/900/1800/1900 MHz); optional UMTS/HSPA+, CDMA/1xRTT/EV-DO, LTE
Satellite	Iridium modem (external device with antenna), RS232 connection
Data channels / protocol	SMS, TCP/IP; proprietary, encrypted
COMM port	RS232, 115 200 bps
Location	
Type	GPS, GLONASS (optional)
TTFF	1 s (hot start)
Positioning accuracy	2.5 m CEP (50%), velocity 0.2 m/s
Antenna type	Built-in (concealed)
I/Os	
Digital inputs	Max. 8
Digital outputs	Max. 4
Analog inputs	Max. 3
Pulse counter	Max. 1
CAN bus	Included
Accelerometer and alarm	
Accelerometer	3-axis, 20 mg accuracy, up to 8 g – impact and accident detection
Immobilizer	External – gradual stop
Disarming options	Keypad, Dallas key, remote control, RF keypad
General	
Dimensions	21 × 60 × 107 mm (0.82" × 2.36" × 4.21")
Weight	150 g (5.29 oz)
Power voltage range	8 – 36 V
Consumption	3 mA in low power mode; up to 120 mA in operation; up to 300 mA while charging
Backup battery (optional)	Lithium-ion polymer 1100 mAh / 3.75 V
Operating temperature	-40 °C ~ +60 °C (-40 °F ~ 140 °F)
Storage temperature	-40 °C ~ +85 °C (-40 °F ~ 185 °F)
Humidity	Max. 90%