



HAWKEYE 5500

A comprehensive integrated vehicle management and two-way communications system



HARDWARE FEATURES

CONNECTIVITY

Cellular

- GSM (2G) bands: 850,900,1800,1900 (quad band)
- UMTS (3G) bands: 800,850,900,1900,2100 (upon request)
- LTE CAT M1/NB1 bands: 2-5,8,12,13,20,25,28
- Built in cellular antenna with optional external SMA
- User accessible SIM

Iridium SBD

- External iridium antenna with SMA connection

GPS

- Full GNSS support (GPS, Galileo, GLONASS, BeiDou)
- 72-channel receiver
- 2.5m, 0.05m/s, 0.3 degrees accuracy
- Automatic spoofing and jamming protection
- Dedicated active GPS antenna with SMA connection

Bluetooth / RFID

- Bluetooth 5.0 LE (+8 dBm transmit power)
- Bluetooth beacon / sensor / RS-232 support
- ISO 14443 RFID (13.56 MHZ)

VEHICLE INTEGRATION

Ignition Sense

- Power on unit with ignition
- Power off unit with ignition with optional timer

OBD / BUS Integration

- ISO 15765-4 (CAN)
- ISO 14230-4 (Keyword Protocol 2000)
- ISO 9141-2 (Asia, Europe, Chrysler)
- SAE J1850 VPW (GM)
- SAE J1850PWM (Ford)
- ISO 15765
- ISO 11858 (raw CAN)
- GMLAN single wire CAN (GMW3089)
- Ford medium speed CAN (MS CAN)
- SAE J1939 OBD protocol

MECHANICALS

Size & Weight

- Dimensions: 140mm x 110mm x 32mm (5.5 x 4.3 x 1.25 inches)
- Weight: 450g (1lb)
- IP54 Rating

IO / PINS

- 2x digital IN (pull up, max 35v)
- 2x digital OUT (pull down)
- 1x analog IN
- 4x remote emergency switch w/ LED indicator
- 1x ignition sense
- 1x 1-Wire
- 1x RS-232

LEDS

- Power
- Network status
- Emergency
- Message waiting
- Action status

OPERATING PARAMETERS

Electrical:

- External power
 - › 10-32VDC (12 watts peak)
- Internal battery
 - › 18650 Li-ON (PCB protected) (3.7v @ 3500mAh)
 - › User replaceable
- Power consumption
 - › Charge: ~5 watts
 - › Transmit: ~3.4 watts
 - › High power run: ~2 watts
 - › Low power mode: ~0.4 watts (~1 year standby)

Environmental:

- Operating temperature range: -40°C to +85°C
- Operating temperature range (on battery): -20°C to +60°C
- Charging temperature range: 10°C to +45°C
- Storage temperature range: -40°C to +50°C
- Operating humidity range: ≤ 75% RH
- Storage humidity range: ≤ 93% RH

OTHER

- Internal speaker (basic tones)
- External speaker (waveform) (passive or powered)
- High precision accelerometer
- Waypoint / action button

SOFTWARE FEATURES

REPORTING

- Customizable report rate while stationary
- Customizable report rate while moving
- Turn detection reporting

GEOFENCES

- Up to 75 geofences (polygon and circular)
- Audible tone when crossing boundary
- Advanced variable response geofences
 - › Change report rate when inside (AVR 1.0)
 - › Identify geofence as no-go zone (AVR 1.0)
 - › Identify geofence as no-report zone (AVR 1.0)
 - › Stacked geofence support (AVR 2.0)
 - › Speed limit support (AVR 2.0)
 - › Identify geofences as depot / base (AVR 2.0)

POWER

- Power on/off unit with ignition with optional keep-on timer
- Power on/off via front panel button

EMERGENCY

- Activate with external switch or front panel button
- Interactive operator notification of status of emergency
- Remotely activate / deactivate emergency mode

SMART EVENTS

- Up to 20 smart events (5 conditions & 2 outputs)
- Completely customize asset behavior based on real-time conditions

UPDATE / UPGRADE / CONFIGURE

- Real-time remote configuration of all features & settings
- Upgrade firmware through Bluetooth or cellular
- Perform remote diagnostics through Bluetooth or cellular

ACCELEROMETER

- Crash detection
- Aggressive driving (harsh acceleration / braking)
- Rollover detection

SECURITY

- Available AES-256 encryption of all MO/MT communication

SPEEDING

- Remotely configurable speed limit
- Geofence specific speed limit
- Configurable local audible tone

IDLING / MOVEMENT

- Excessive idling / fuel use detection
- Movement from stationary notification

BLUETOOTH / COMMUNICATIONS PANEL

- Messaging / Comms (text, digital forms, short codes, canned, raw)
- Alerts (geofence / speed violation)
- Automatic operator, passenger, & cargo identification using card
- Custom iOS/Android application
- Unit configuration & diagnostics

WAYPOINT / ACTION BUTTON

- Configurable on demand position event

OBD / SENSOR / VEHICLE INTEGRATION

- Diagnostic Trouble Code (DTC) detection & clear
- Maintenance warnings (oil life, etc.)
- Safety event detection (coolant temp, seat belts, doors, etc.)
- Driver behavior
- Bluetooth data offload

BLUE SKY NETWORK

Blue Sky Network offers a powerful, cloud-based fleet management and tracking solution improving safety and operational efficiency among fleets anywhere in the world. Our pioneering platform, SkyRouter™, offers dual-mode tracking, navigational maps, operational analytics, and communication tools for real-time fleet monitoring. SkyRouter is tailored for tracking and monitoring aircraft, vessels, vehicles, and personnel. Capture, display, disseminate, and port data from every asset in the field to the command center with uninterrupted global coverage.

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