



hiro

Hiiro blends UHF, satellite, cellular, Bluetooth, Ethernet and WiFi to provide seamless communication coverage both indoors, outside and underground.





Accurate person-down detection - angle, movement, free-fall and heartrate



Simple 5-button interface for SOS, Check In, Monitor Me & Tracking



Configurable audible and visual alerts, as well as the option for covert mode



Multiple pendants can roam between multiple base stations, providing seamless connectivity



Integrate with Alarm and Emergency Control Centres (internal or external)



UHF communications with hiiro Pendants ranging up to 1km away



Secure and reliable message delivery with AES128 encryption

Industry-first duty of care devices

Hiiro is designed to protect workers who operate in remote environments and perform high-risk, specialised tasks. It's an industry first in a whole new category of duty of care devices - consisting of hassle-free wearable pendants and base stations which are installed in either vehicles or fixed infrastructures. Workers have the freedom to work anywhere with the

confidence that they will stay connected and protected - the UHF pendants coupled with the base stations provide seamless connectivity by automatically connecting to the required network, whether it's cellular, satellite, Ethernet or WiFi.



Hardwearing design and IP65 waterproof rating

((,)) Enhance in-building location using lowcost and low-energy Bluetooth beacons



In/out of range notifications to ensure connectivity at all times



Pendants are automatically sleep-cycled Z_z based on proximity to charger to prolong battery life



The pendant is a simple "tlip and go" wearable and lightweight device



Automatic low battery warning with full charge in under 4 hours using inductive chargers

Exclusively available

through our Partner Programme

Technical Specification: Pendant

Physical

Dimensions: 115 x 50 x 17mm Weight: 270g

Interface

5 buttons 4 high-intensity LED and 1 RGB LED Mechanical vibrator Magnetic speaker Connectivity

GPS: ublox SAM-M8Q w 72 channel tracking ANT+ 2.4 GHz UHF: 433 MHz, max TX power 17 dBm

Technical Specification: Base Station

Physical

Dimensions: 179x 140 x 38mm Weight: 420g Side-mounting screw tabs

Interface

Input power header (12VDC - 24VDC) General purpose IO header (5VDC Output, Ground, Ignition Input, Ignition Output, Digital IO1, Digital IO2) Dedicated USB port for hiiro Pendant charging and 4x USB ports*

Ethernet / WiFi* External UHF 433MHz antenna (SMA) External GPS high gain active antenna (SMA) External Iridium SBD helix antenna (SMA) LED & Piezo buzzer

Connectivity

UHF: 433MHz, max TX power 17 dBm GPS: ublox MAX-M8Q w 72 channel tracking Iridium: 9603 SBD transceiver Ethernet / WiFi / Cellular * 4G LTE Cat-M1 * Bluetooth: iBeacon support * A single basestation supports up to 50 concurrent hiiro Pendants via Iridium and 200 via Ethernet/WiFi Environment

Operating Temperature: -20 to +60 deg C Charging Temperature: -20 to +40 deg C Humidity: 95% RH @ 40 deg C Storage Temperature: -45 to +75 deg C Vibrations & Shock: MIL-STD-810G, SAE J1455 IP Rating: IP30

Environment

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Power

Battery technology: Li-Ion Battery Capacity: 1100 mAh Typical running time: > 14 hrs

Power

Internal battery backup: Li-Ion 4500 mAh Typical running time on battery: >48 hrs Typical running time on battery: >5hrs (on Ethernet/WiFi) Charge from flat: <6hrs

Internal battery backup with low battery warning Supports 12V and 24V vehicles

In-Vehicle Management System

Simple IVMS functions including ignition on/off, Configurable GPS tracking interval, SOS tracking interval & heartbeat interval Configurable runtime ignition detection or wired ignition input

IVMS functions configurable via GAP Portal Configurable vehicle battery protection isolator

Compliance

RCM, UL, WEEE, RoHS Carriers: Iridium, Telstra

Other

AES128 encryption Supports external SOS button & Pan-Pan button * Easy firmware upgrade via Bluetooth

*optional

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