SED – EGIS

EMERGENCY LONE WORKER SYSTEMS


The Sec-Eng Systems EGIS is a robust, feature packed Man Down personal duress device.

The EGIS system operates via the 3G/4G mobile networks and is not carrier dependent. The unit has the ability to send duress alarms, with GPS coordinates of the alarm location.

The device can react to a Man Down situation or a duress alarm and initiate a number of communications such as 2 way voice, SMS and GPS tracking. It supports 4G VoLTE as well as 3G Data & Voice.

The EGIS can also be configured to communicate via an SQL server for larger applications. In this configuration it offers customers additional features, such as live tracking, welfare checks, as well as custom services catering to users needs.

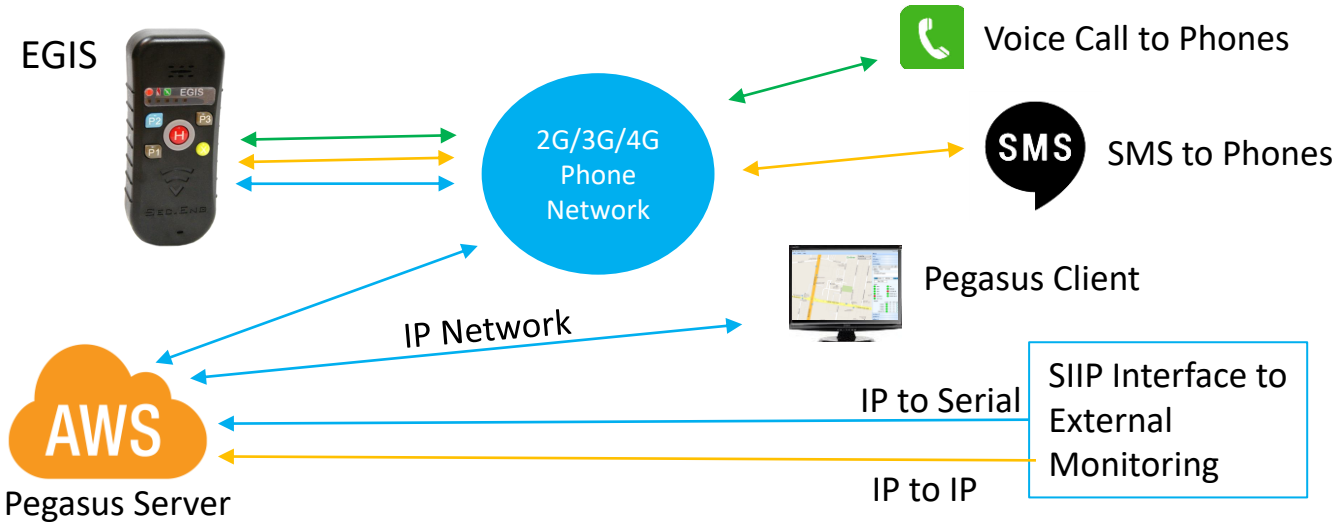
The EGIS is designed, manufactured and supported by Sec-Eng Systems in Australia. It has local SARS and EMC compliance and is used by some of the largest government and commercial organisations Australia wide.

Why use our product?

- Proven reliability track record, with over 9 years in operation
- Local technical and service support
- Quality Australian made product

SEC·ENG SYSTEMS

EGIS



Amazon secure cloud server

A dedicated user M3 SQL server with redundancy path. Remote access is via a secure Windows Remote Desktop Protocol (RDP) connection. 2 user logins as standard (A nominated administrator with 2 users, requires username and password access). 128-bit RDP encryption, using the RC4 encryption algorithm, as of version 6. Amazon is a reliable secure modern offsite server facility, that is used by large corporate and semi government departments in Australia and around the world.

Dedicated Secure Server Platforms

At Sec-Eng Systems we understand that some clients require secure non public server access, this can be achieved with our product upon request. We do not share servers with multiple clients. You will have your own private server.

Pegasus Tracking Software

The server software is 100% Australian designed and developed using an SQL database with user and password access. The software has the ability to monitor up to 2000 assets depending on the server type supplied. The database is a multi thread SQL design with full graphical capabilities to configure, monitor and track assets.

Communication between the EGIS devices and the Server Platform

All communication between the tracking devices and the server is done via 2G/3G/4G using a secure network encryption. The message system has full Ack/Nak message control. APN and sim card mode of operation can be configurable depending on the clients requirements. Dedicated port control is required by the Pegasus server software for authentication of messaging.

External Monitoring

The Pegasus software, via AWS, has the ability to send alarm information across different communication paths, such as email, HTTP and serial interface (SIIP) into most monitoring platforms.

EGIS

TECHNICAL DETAILS

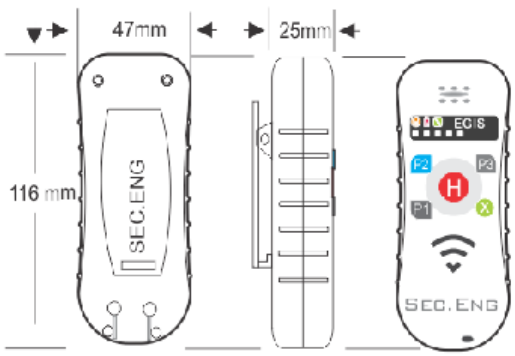
Plastic Design: Reinforced Polycarbonate Glass Nylon IP64 (rated) with sacrificial belt clip design.

Front Buttons: Silicon underlay IP65 (rated), with 4 x PCB tactile switches (1 x SOS, 3 x programmable, 1 x cancel)

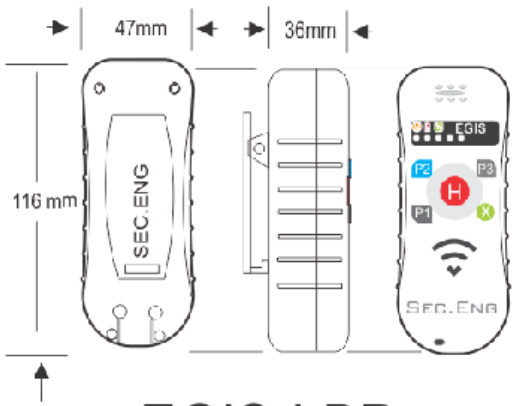
Front LED Display: Various LEDs indicate the status information.
Mode indication (4G/GPS/Battery)
Level indication for 4G signal, GPS signal and Battery level.

Battery Type: SBP (Small Battery) 3.7v 2350mA Li-Ion rated at 1000 cycles.
Battery run time: 3G with 5min polling = 30hrs / 4G with 5min polling = 24hrs
Battery protection: Built-in over voltage & short circuit protection.

Battery Type: LBP (Large Battery) 3.7V 6700mA Li-Lon rated at 1000 cycles.
Battery run time: 3G with 5 min polling = 50 hrs / 4G with 5 min polling = 50 hrs
Battery protection: Built-in over voltage & short circuit protection system.



EGIS-SBP
24 hr battery life
Weight 140G



EGIS-LBP
48 hr battery life
Weight 204G

Egis Charger design: Built-in voltage and current control, sensing and over protection circuit.

Egis Audio: Sealed speaker design. Power level @150mW (adjustable level control) Freq 20Hz to 20,000Hz

Egis Microphone: Dynamic noise cancelling design (adjustable level control)

Egis Movement and Tilt Sensor: 3 Axis digital adjustable accelerometer

Egis Haptic User Feed Back: 3.3V Vibration motor

EGIS

Method of Transmission

GPRS / HSDPA / VOLTE (2G/3G/4G), full 2 way voice & SMS functions.
4G LTE: Band 1 (1920- 2170MHz) Band 3 (1710-1880MHz) Band 5 (824-894MHz) Band 7 (2500-2690MHz)
Band 8 (880-960MHz) Band 28 (703-803MHz)
3G UMTS/HSPA/UTMS: Band 1 (2100 MHz) Band 4 (1700MHz) Band 5 (850MHz) Band 6 (800MHz) Band 8 (900MHz)
2G GSM/GPRS/EDGE: E-GSM 900MHz, DCS 1800MHz
Sim Type: micro sim, not pin locked required.

Certifications (Modem)

Certifications: PTCRB, GCF, R&TTE/CE, FCC, IC (Canada), Giteki (Japan), A-tick (Australia), IDA (Singapore), Anatel (Brazil), NCC (Taiwan), CCC (China), KCC (S. Korea), AT&T (USA), DoCoMo, Softbank (Japan), Telstra (Australia)
All Vodafone networks: Telecom NZ, Rogers, Bell Mobility, Telus (Canada), SKT (South Korea), ICASA (South Africa).

Certifications (EGIS)

C-tick Certification - N3884
SARS / EMC Certification

GPS Receiver

Receiver type: 56-channel U-Blox 7 engine
GPS L1 C/A, GLONASS L1 FDMA, Galileo E1B/C
SBAS: WAAS, EGNOS, MSAS
Navigation update rate up to 10Hz
Accuracy GPS / GLONASS
Position 2.5 m CEP / 4.0 m
SBAS 2.0 m CEP / n.a.
Acquisition GPS / GLONASS
Cold starts: 29 s / 30 s
Aided starts: 5 s / n.a.
Re acquisition: 1 s / 3 s
Sensitivity GPS / GLONASS
Tracking: –162 dBm / –158 dBm
Cold starts: –148 dBm / –140 dBm
Warm starts: –148 dBm / –145 dBm

GPS Antenna

Active 202 Stage 25dB
Active GPS Patch Antenna Module
Front End SAW Filter
Patented T mounting antenna structure
Input Voltage: 1.8V/3.0V/5.5V
Antenna 10mm x 10mm x 4mm (7.5mm depth Vertical PCB T Mount)

Egis Technical Charger Specification

Single Wall Charger
100V-240V VAC @ 50Hz
Output 5V DC @ 2A
ENSCN-NSW20945

Multi Rack Charger 5 way & 10 way

5 way and 10 way power supply
100V-240V VAC @50Hz
Output 5V DC @12 amps
UL Certified
CE Approved