# SED-901 3G Handheld Series

## Wireless 3G-IP Multi Reader Wireless Access Control

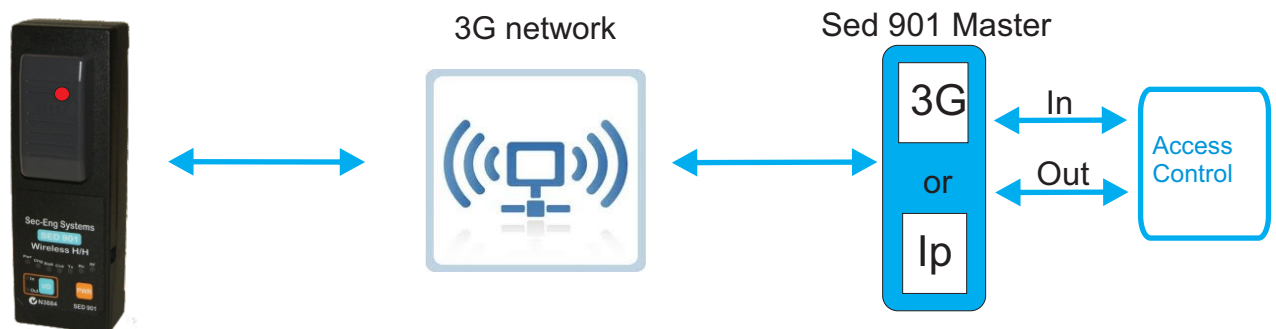The SED-901 3G is the latest generation of wireless access card reader by Sec.Eng Systems.

The portable handheld system is compatible with most Wiegand protocol based access controllers.

Ideal Applications:
- Fire assembly points
- Mining
- Country wide access control or locations where line of sight is unachievable.

The SED-901 3G utilises the mobile data network, HSDPA & GPRS, to send Wiegand information over 3G point to either a 3G sd 901 master or a IP-901 master .

The handheld provides full card reader functionality including tone and LED indication, just like a wired reader but with the added benefit of working in any part of the country where network signal is available.

# SED-901 Handheld Series

## SPECIFICATIONS  SED-901 3G/3G System

**FEATURES**

The SED-901 3G is a real-time wireless system that allows the user to select between an IN and OUT channel on the handheld. The access information is transmitted via the mobile data network to an IP/WWW connection and into the Master receiver.

**CONTROL PROCESS**

The access information received by the Master unit is decoded and passed through the selected Wiegand output port. All Wiegand status information such as Beeper and LED will be transmitted back to the handheld reader for verification. All of this will occur within a time span of 1-2 seconds.

**POWER AND LEDS**

Both the handheld device and the Master receiver feature LEDs which indicate system status information including signal strength, data transmit and receive, battery charge and communication faults.

The handheld is powered by a rechargeable lithium battery pack which provides over 15 hours of operation time. Power saving features such as auto power off and an adjustable polling rate can be set up to further extend the operation time.

**SUPPORTED PROTOCOL**

The SED-901 3G series supports HID Prox Point and iCLASS R10 readers as well as many other Wiegand format readers (up to 240 bits).

**HANDHELD POWER & FREQUENCY SPECS**

Charger input: 110-240V AC
Charger output: 24V DC
Battery pack: Li-ion 14.8V capacity 3.4Ah
Operational run time: 15 Hours
Charge time: 4 Hours

**MASTER RECEIVER SPECS**

Board input: 16V AC, 1A (plug pack)
Battery backup input: 12V 7Ah gel cell
Wiegand outputs:  L,B,D1,D0,Gnd (IN/OUT)
RS485: 4 wire LAN for expansion (optional)

UMTS/HSPA 800/850/900/1700/1900/2100MHz
GSM 850/900/1800/1900MHz
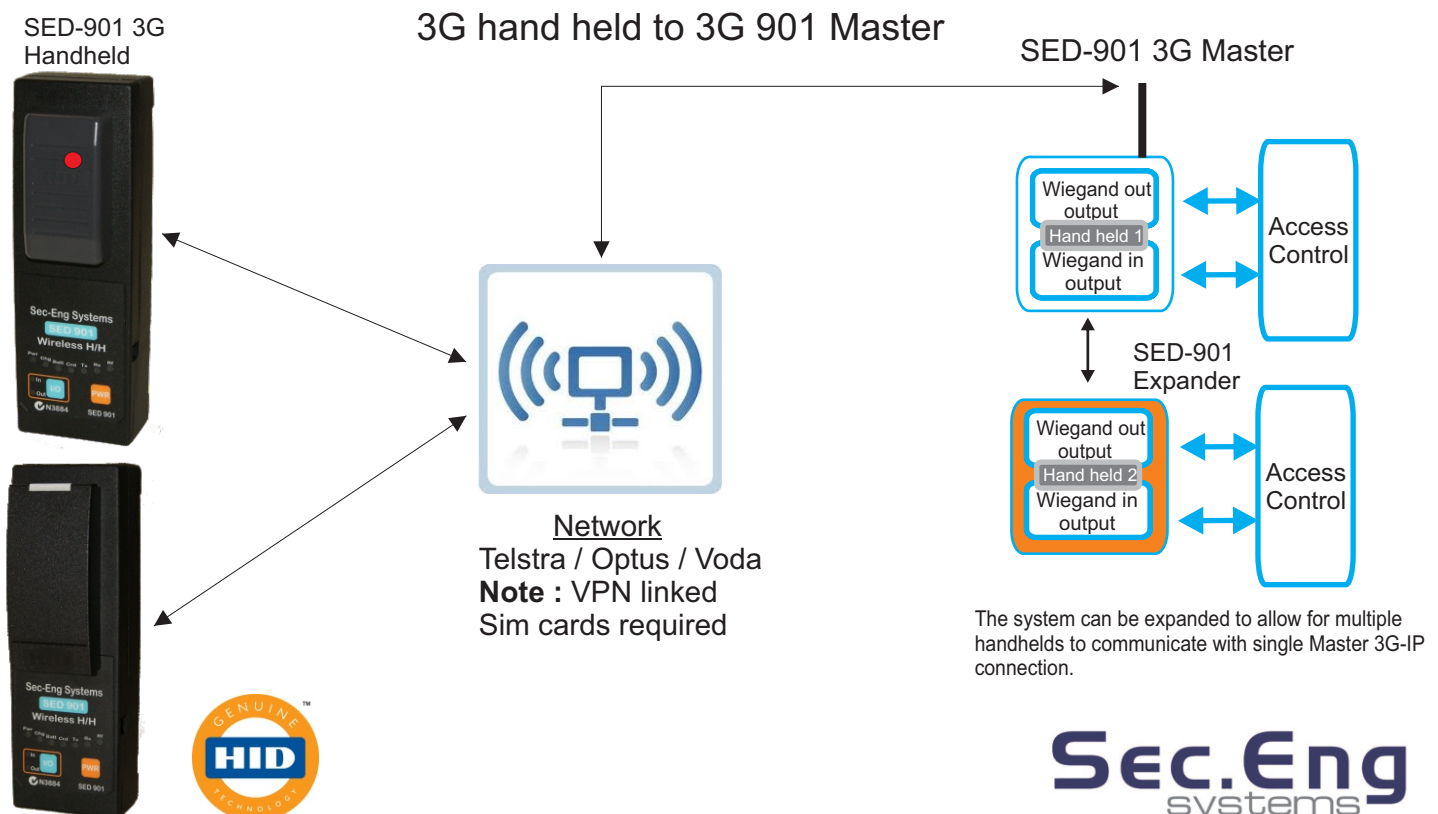Austel Approval N3884

**DURABILITY**

The SED-901 3G handheld enclosure is constructed from glass filled nylon which is splash and dust proof. It features a built-in antenna to prevent damage or tampering.

The SED-901 3G Master is supplied in a metal housing cabinet (300x290x80mm) with all of the installation accessories included.
The SED-901 Hand held
H:198mm,W:67mm,D:40 diamention

**Note :**Sim cards specifically configured for the system are required (supplied by Sec.Eng systems)

## 3G hand held to 3G 901 Master

SED-901 3G
Handheld

SED-901 3G Master

Wiegand out output
Hand held 1
Wiegand in output

Access Control

SED-901 Expander

Wiegand out output
Hand held 2
Wiegand in output

Access Control

Network
Telstra / Optus / Voda
**Note :** VPN linked
Sim cards required

The system can be expanded to allow for multiple handhelds to communicate with single Master 3G-IP connection.

Sec.Eng systems

# SED-901 Hand Held Series

## SPECIFICATIONS  SED-901-3G to 901 Ip master

### Features
The SED-901 is a portable real time wireless system that allows the user to select the IN or OUT channel on the  handheld. This information is transmitted via, The Mobile phone Network to a Ip or WWW connection, into the SED-901 master.

### Control Process
The information is received by a Master Controller, decoded and directed to the selected Wiegand output port. Any Wiegand status control information like Beeper or LED will be directed back to the handheld for reader verification, all within a time base of 1-2 seconds via 3G

### Power and LEDS
The 901 handheld has a separate beeper which can be controlled by the 901 Master. The hand held operates on a long life rechargeable battery, which allows the unit to operate for an extended period of time, without the need for a recharge. The 901 has the ability to conserve battery life and operate in low power mode when not being used. It can auto wake based on movement in any direction, and de-power after a prescribed time.

### Supported Protocol
The 901 series supports HID Prox and ICLASS ® wiegand readers from  20-80 bits. ®

(Fitted standard with a HID  Mini Prox reader )
### Programming and Enrolment
Programming and enrolment of a 901 handheld onto a site is now a simple self learn process from the 901 Master.

### Power Rating and Frequency Specifications
The 901 is splash and dust proof
Recharged via 110-240v power pack @ 24v DC
Battery pack 13v 2.4 amp hr NMH
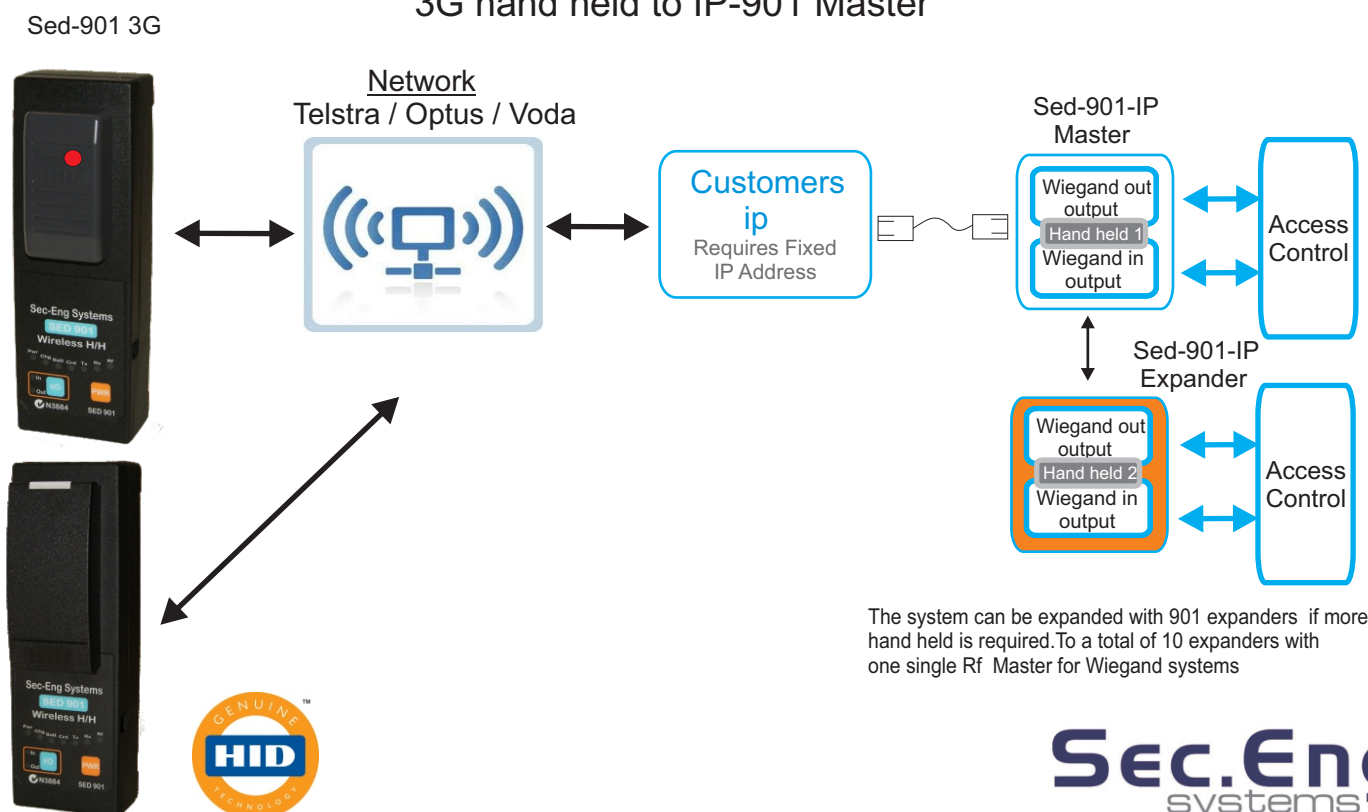Austel Approval N3884

### SED 901 IP Master
Note: **The Sed 910 3G-ip Master requires a fixed Ip address**

Operates on 16vac plug pack @ 1amp
Battery recharge system to suit 12v 7A hr gel cell
Wiegand outputs  L,B,D1,D0,Gnd (In /Out)
485 - 4 wire Lan for expansion
Metal Housing Cabinet  (300 x 290 x 80mm)

### Durability
The 901 handheld is a robust  constructed glass filled nylon case which makes it very durable and sturdy in the toughest environments .The wireless antenna in-built to avoid damage or tampering. The SED-901 Hand held
H:198mm, W:67mm ,D:40 dimension

## 3G hand held to IP-901 Master

Sed-901 3G



The system can be expanded with 901 expanders  if more than 1 hand held is required.To a total of 10 expanders with one single Rf  Master for Wiegand systems