Quicker response through increased collaboration
No two incidents are the same

Yet there is one certainty; lives are saved when first responders and security organisations get the right information at the right time.

Built for challenging environments, SMARTLINK, a rapidly deployable cellular network-in-a-box solution, will continue to deliver real time information back to those on the ground when all other communications systems fail.

Rapidly deployable, scalable, and offering extended range over other small cells, SMARTLINK offers the complete networking solution for first responders and security organisations. Users have access to all the features of a standard cellular network enabling voice, image and video sharing even in the most remote locations.

Unconstrained Voice And Data

Greater Collaboration
Features

Easily Transportable
Weighing just 6.1Kg SMARTLINK can be easily carried and deployed in a multitude of scenarios.

Rapidly Deployable and Scalable
SMARTLINK provides a complete 3G communications network within 90 seconds. Additional SMARTLINK units can be deployed to extend the coverage area.

Wide Area Mobile Connectivity
Out of the box, a single SMARTLINK provides a communications bubble out to 5km. This is expandable up to 15km with additional ancillaries.

Real-time Information Sharing
Improve team collaboration and safety by sharing the latest information throughout the team in real time.

Reduced Costs
Calls and data within the SMARTLINK network are free. In addition, by utilising mobile phone technology the training burden is reduced.

Greater Awareness
Increased Effectiveness
Connecting teams quickly

**Incident Management**

In any situation or environment, immediate reliable connectivity between first responders is always required. SMARTLINK provides that trusted communications network.

- Rapidly share information with teams on the ground
- Relay information back to command centres
- Continuous user tracking and mapping
- Multi-organisation collaboration

**Public Event Safety**

Large crowds can swamp commercial cellular networks. Why take the risk when you can have a dedicated private network provided by SMARTLINK?

- Private, secure communications network
- Connectivity to command centre
- Real time video exchange
- Dispatcher and tracking capabilities

**Counter Terrorism Operations**

In time-critical, high risk operations, all personnel require the latest information from diverse sources to save lives. SMARTLINK provides the interoperable dynamic communications system which makes reliable real-time intelligence on the ground a reality.

- Dedicated Private Network that can span organisations
- Greater Situational Awareness using applications
- Share and collaborate with the latest information
- Resilient to intentional and unintentional interference
Natural Disaster

With no existing communications infrastructure, setting up local communications can take hours or even days. SMARTLINK will provide a complete communications network in just 90 seconds.

- Dedicated first responder network
- Location services to track users in dangerous environments
- Share and collaborate with the latest information
- Connectivity to anywhere in the world

Border Security

Rapidly changing situations around national and local borders require a dynamic approach to surveillance and communications. SMARTLINK can provide these on a single system.

- Private, secure communications network
- Provides coverage as required or on a permanent basis
- Surveillance capabilities
- Real time information dissemination
SMARTLINK uses UMTS 3G HSPA communications to allow COTS mobile technology to be deployed during incidents. Air interface security is provided in the form of Kasumi Encryption with additional encryption possible at the application layer.

By employing the latest radio frequency and power amplifier technology SMARTLINK provides twice the output power of similar size solutions to increase the coverage area of the network.

Network scalability is offered by deploying multiple SMARTLINK systems connected via standard IP connections. Security on the backhaul and reachback network is implemented using AES-256 encryption over a VPN (Virtual Private Network). This has the additional benefit of reduced network setup time.

Extended connectivity back to the PSTN can be offered through SIP server connections using standard internet connections.
Complete cellular solution offering

Ancillaries
With a large range of deployment scenarios, SMARTLINK can be supplied with the ancillaries to meet your needs.

- Rugged or COTS phones with standard or custom headsets
- Masts with mounting brackets
- SIM Cards
- Alternative Power Source Cables
- Batteries
- Reachback and backhaul hardware and services

Applications
Your communications requirement may not simply encompass standard 3G voice and data. With SMARTLINK the solution can be scaled to include applications that improve mission effectiveness. Some of these are:

- PTT (Push-to-talk)
- Situational Awareness
- Collaboration Software
- File, video and image sharing

Customisation
SMARTLINK is designed as a platform with the future in mind. A number of upgrades are possible to meet your requirements. These include:

- Rebanding to military bands or other bands
- IMSI grabbing
- Simultaneous Multiple Standards/Frequency Bands
- Anti-Jamming Technologies
- User Specific Application Integration and Development
SMARTLINK Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>3GPP Release</td>
<td>6</td>
</tr>
<tr>
<td>Number of connected users</td>
<td>100</td>
</tr>
<tr>
<td>Number of simultaneously active users in call</td>
<td>16</td>
</tr>
<tr>
<td>Maximum User Speed</td>
<td>120kph (70mph)</td>
</tr>
<tr>
<td>Backhaul and Reachback interface</td>
<td>IP</td>
</tr>
<tr>
<td>Maximum Downlink Data Rate</td>
<td>8Mbps</td>
</tr>
<tr>
<td>Maximum Uplink Data Rate</td>
<td>2Mbps</td>
</tr>
<tr>
<td>Standard Frequency Bands</td>
<td>UMTS Band I and VIII</td>
</tr>
<tr>
<td>Transmit Power</td>
<td>33dBm</td>
</tr>
<tr>
<td>Total Power Consumption</td>
<td>75W</td>
</tr>
<tr>
<td>Power Supply</td>
<td>10-36V DC</td>
</tr>
<tr>
<td>Dimensions</td>
<td>335mm x 240mm x 102mm</td>
</tr>
<tr>
<td>Weight</td>
<td>6.1Kg (excl batteries and antennas)</td>
</tr>
<tr>
<td>Operational Temperature Range</td>
<td>-33°C to +49°C</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP67</td>
</tr>
<tr>
<td>Environmental Compliance</td>
<td>MIL-STD 810G</td>
</tr>
<tr>
<td>EMC Compliance</td>
<td>MIL-STD 461F</td>
</tr>
<tr>
<td>Export and ITAR</td>
<td>ITAR Free</td>
</tr>
</tbody>
</table>

Creating innovative technology solutions that protect and enhance people’s lives