

Satellite Solutions

When responding to a major incident it is vital that there is reliable and fast communications between first responders and command and control centres. It is essential that mission critical information on the progress of the operation can be made available to HQ, and that inputs from Gold and Silver Command reach the teams in the field. This may well be under circumstances where terrestrial networks are destroyed or degraded in the incident area.

Using the 802 Global rapid deploy satellite capability, communication can be immediately established between an incident ground, HQ and other locations such as Resource Centres.

With the satellite system providing WAN connectivity, information can be exchanged not just within the incident environment but also with HQ or other locations. This gives front line personnel access to remote information such as hazardous chemical databases or building layout diagrams. They can also work collaboratively with secure voice, video and data connections to an expert anywhere in the world.

Using a high capacity wireless mesh and secure Wi-Fi access points connected to a single satellite terminal, 802 Global's integrated solutions enable command posts to support multiple users and devices across the incident ground.

Optical and thermal cameras can relay incident imaging to command and control personnel allowing senior commanders to see what is actually happening on the ground in real-time.



Voice over IP telephony and fax links ensure communications can be maintained even when the terrestrial or mobile networks are down or overloaded.

802 Global can supply a range of satellite solutions to meet any user needs, from fully-automated, self-aligning vehicle or cabin mounted systems, to low profile transportable flight-cased units. Our vehicle roof-mounted units stow flat when not in use and a single button activation triggers the dish to deploy and automatically lock onto the corresponding satellite typically within 6 minutes. We can deliver systems that will operate in wind speeds up to 60mph.

Working exclusively with the iDirect satellite platform, 802 Global has bandwidth options available to suit any customer requirements. Connections can be provisioned as contended or dynamically contended, with or without a Committed Information Rate for priority services such as video, fax and telephony. In this way customers' requirements are met whilst maintaining an efficient and economical service.

As part of providing communications solutions for disaster response, 802 Global's satellite solutions support applications such as:

- VPN connectivity to corporate networks allowing remote workers direct access to head office resources
- Surveillance camera feeds for security monitoring and situational awareness
- Video and web conferencing for long distance meetings and information exchange
- Thin clients such as Citrix for secure remote server access
- Multiple user email and internet access serviced by reliable high bandwidth connectivity
- Voice over IP and analogue voice and fax to provide telephony services in the absence of operational landlines or mobiles
- Exhibitions and e-learning with multimedia access to remote resources
- Telemedicine providing direct access to remote expertise

Consultancy Services

802 Global can provide expert consultancy, delivering skilled personnel and services to a diverse cross-section of emergency responder and defence agencies. All 802 Global solutions are inherently secure by design, working up to CESG standards and beyond.

Among the consultancy services available are terrestrial network architecture, RF network design and implementation, computer forensics, InfoSec solutions and penetration testing/security assessments.

Product Features

- Always on true broadband connectivity
- Guaranteed minimum data rates
- Fully motorised self-aligning antenna system which achieves satellite lock within 6 minutes
- Single button operation
- Full onboard power system for long term autonomous operation

Example Summary Specification for Vehicular System

<p>Platform</p> <p>Reflector size range: 790mm 1200mm</p> <p>Mounting plate size: 600mm x 600mm</p> <p>Positional lock accuracy: 0.02 degree</p> <p>Satellite acquisition: Initial deployment approximately 6 minutes, thereafter within 4 minutes</p> <p>Deployment sensors: Rotation and tilt override protection</p> <p>Unit dimensions stowed: Width: reflector diameter Depth: reflector diameter + 200mm Height: 450mm (500mm with 1200mm reflector) Custom developments available to <430mm</p> <p>Weight: ~40kg</p>		<p>Controller</p> <p>Dimensions: 19" rack mount 2U 250mm deep</p> <p>Controller interface: 2x 20x4 line backlit LCD displays Deployment progress indication Signal strength & BER indicators 5-button membrane control pad Live GPS location display</p> <p>Power supply: 240v AC switch mode (8 amp max, typical 3 amp for 1200mm system)</p> <p>Environmental</p> <p><i>Platform</i> Operating environment: Temperature -30°C to +50°C Humidity 5% to 95% non-condensing</p> <p><i>Controller</i> Operating environment: Temperature 5°C to +40°C Humidity 5% to 95% non-condensing</p>	
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