

TacticalTCS (Transportable Command & Communication System) Overview

The VisionComms TacticalTCS series is designed specifically for fast and simplistic establishment of tactical communications whenever and wherever conventional connectivity of “reach-back” may not be available due to collapse of hard infrastructure or in remote regions where communications infrastructure does not exist. The system is deemed First Responder Friendly because it sequentially boots all systems with the activation of one button. The TacticalTCS is designed to establish command, control, communication and computer (C4) field communications under any conditions. The solution is not only designed for first responders, but can be a valuable asset for school and hospital campuses, large utility and manufacturing facilities or other institutions and services where being able to communicate is a critical asset.

What is the purpose of the TacticalTCS?

The TacticalTCS is an easy to configure customizable solution. It permits agencies to have all the C4 capabilities of million dollar command trucks in a small modular package. Its modular design allows your agency to design a system to meet today’s capability and budgetary needs and expands in the future as new capabilities or budgets permit. The modular design also ensures the system will never become obsolete!

The TacticalTCS is compatible with practically all federal, state, local or regional communication systems translating into true interoperability at a truly affordable price. The standard TacticalTCS package provides resilient secure unified telephone and two-way radio interoperable communications when all other communications or infrastructures have failed or collapsed.

How does the TacticalTCS connect to the world?

The TacticalTCS connects you with the outside world via a VSAT (preferable due to high bandwidth capability) or BGAN satellite antenna and, when available, with any 3G\4G wireless or hard-line broadband device. Once activated the system creates a WiFi hotspot with up to a .5 mile (.8 km) radius, allowing the system to be accessed by any WiFi equipped smartphone or laptop. This hotspot is easily expandable using optional Tactical Extender Kits (TwEK’s) creating a much larger footprint or around natural barriers such as high-rise building or mountains.

Already have a command or communications vehicle?

You may already have a command or communications vehicle but it may not be equipped with the latest technologies. VisionComms has the solution for you in the TacticalTCS. It may not be necessary to deploy your vehicle to every incident or maybe your team is deploying outside your normal area of operations. The TacticalTCS is the perfect stop-gap piece of equipment to ensure you have instant communications wherever and whenever needed. Easily transported via land, sea or air the TacticalTCS will be ready when you are.

What kind of power requirements do I need?

The entire system requires little more than 500-watts of power (depending on the number of radio transceivers are in use at any given time). For emergency operations a deep-cycle battery and 500-watt inverter can get you up and running until such time as more robust power supplies are available.

Depend on us when all else fails!

- Rugged transportable, weatherproof case with shock mounts
- Customer Specified Flyaway VSAT or BGAN satellite antenna. AvL standard
- iDirect satellite router. Optional iDirect routers available: 3100 iINFINITI, 5350
- Full featured PBX server
 - Voicemail
 - Caller ID
 - Conference Bridging
 - Automated Attendant
 - Call Forwarding
- Intellect SIP-compliant Radio over IP Gateway.
- Supports 8 radio transceivers. System expandable in multiples of eight.
- Multi-WAN ports router for 3G/4G, BGAN, VSAT or other broadband connections
- High power 802.11 a/b/g/n hotspot
- Single switch automated sequenced startup
- FXS (4) and FXO (4) that provides connectivity to conventional analog desk phones, fax, PSTN
- SIP compliant VoIP Deskphones

BASIC SYSTEM



- .96 m FlyAway VSAT AvL antenna with auto acquisition controller
- iDirect 3100 iINFINITI satellite router
 - IP Data Rate: Up to 17.5 Mbps (downstream), Up to 5 Mbps (upstream)
- Full featured PBX server
 - Intel Core 2 Quad 2.5 GHz
 - 4GB DDR2 RAM
- SIP-compliant Radio over IP Gateway
 - 1U Rackspace
 - 8 analog channels
 - Output Gain Control: -31 to +31 dB
 - Input Gain Control: -31 to +31 dB
- Multi-WAN ports router for 3G/4G, BGAN, VSAT or other broadband connections
 - USB 4G/3G support
 - Intelligent Failover
 - Advanced QoS
- High power 802.11 a/b/g/n hotspot
- 12U Rugged transportable weatherproof case

TCS 400



FlyAway Satellite Internet Systems

- Uninterruptible Power Supply
- Rackmount slide-out LCD monitor and keyboard
- Rackmount drawer
- BGAN satellite system
- Wireless SIP phones
- PoE Switch
- Additional SIP compliant deskphones
- BGAN service plans
- FlyAway Satellite Internet Systems
- VSAT Satellite service plans
- VoIP service plans

ACCESSORIES

* Equipment subject to change