

TacticalMCC (Mobile Command & Communication System) Overview

The VisionComms TacticalMCC 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 TacticalMCC 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 TacticalMCC?

The TacticalMCC 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 easily installed in commercially available vehicles or into existing vehicles and platforms. Its modular design allows your agency to design a system to meet today’s capability and budgetary needs and expand in the future as new capabilities or budgets permit. The modular design also ensures the system will never become obsolete!

The TacticalMCC is compatible with practically all federal, state, local or regional communication systems translating into true interoperability at a truly affordable price. The standard TacticalMCC 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 TacticalMCC connect to the world?

The TacticalMCC 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?

Maybe you already have a mobile command and communications vehicle but its capabilities are limited or outdated. VisionComms has a solution for you as well. The TacticalMCC’s modular design can easily and inexpensively be integrated into any vehicle, even those that already have some of the functional elements of a system. Each component of the TacticalMCC can be independently integrated to an existing system to expand or upgrade your vehicle’s capabilities at a fraction of the cost of purchasing a new system or vehicle.

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!



KEY FEATURES:

Full Featured PBX Server

Includes: Voicemail, Caller ID, Conference Bridging, Auto Attendant, Call Forwarding, Call Queues, Ring Group and up to 100 phone extensions. Minimum server size of 2.5GHz CPU and 4GB DDR2 RAM.

Radio Gateway

Includes: SIP – compliant Radio over IP Gateway capable of supporting 8 radio transceivers in addition to cross-patching to VoIP telephones. Compact design only consumes 1RU rack space. Additional gateways may be integrated depending on number of frequencies required to be supported.

Broadband Router

Includes: Multi-WAN ports router for 3G/4G, BGAN, VSAT or other broadband connections capable of automatic failover to ensure continuous Internet connectivity.

Satellite Antenna

Includes: Minimum of 1m VSAT satellite antenna with 6 Watts BUC (larger antennas and BUCs available based on required bandwidth and service area).

Satellite Router

Choose from multiple iDirect satellite router options, such as the popular 3100 iNFINITI, 5350 iFINITI and Evolution X3.

Computer

Integrated workstation(s) or use your own laptop with VisionComms GUI's for personalize access and control of the network.

WiFi Hot Spot

Includes: Wireless router and dual band antennas to create high power 802.11 a/b/g/n WiFi hotspots with up to ½ mile radius.

Phones

Includes: SIP - compliant VoIP desk phones (quantity based on specified requirements); WiFi SIP compliant hand-held phones for portable in network access (supports up to 30 portables).

Analog Ports

Includes: FXS and FXO ports allowing connectivity for analog desk phones, fax and PSTN.

Power

Includes: Sequential single switch automated start up. Isolated power source using deep-cycle battery(s) and pure sine wave inverter. Generator systems available depending on application and power requirements.



- Satellite TV Systems
- Remote LCD/LED monitors
- Video Surveillance and FLIR cameras mounted on telescoping towers
- Digital Video Recorders
- Video Conferencing
- Video Matrix Switch
- Uninterruptible Power Supply (UPS)
- PoE Gigabit Switch
- BGAN Satellite System
- GPS Systems
- Wireless SIP phones
- BGAN and VSAT Satellite Service Plans
- VoIP Service Plans
- White Board Work Stations

*Many more options available. Call a VisionComms representative to discuss configuring a system to meet your specific requirements.

ACCESSORIES



The TacticalMCC can be integrated into a complete custom designed mobile command vehicle mounted on any chassis with or without slide-out rooms.



Retrofit and Upgrade Your Existing Mobile Command Vehicle to Current Technologies

Individual components and technologies features in all TacticalMCC systems can easily and inexpensively be integrated to bring any existing communications vehicle to full interoperable capabilities