

KEEPING TROOPS CONNECTED

NCS designed and built an IP-Over-Satellite appliance for use in combat support vehicles in harsh environmental conditions.



A High-Mobility Multipurpose Wheeled Vehicle (HMMWV or Humvee)

Deploying a computerized device for operation in combat support vehicles is always a challenge. The equipment must be able to withstand harsh environmental conditions, and yet remain sufficiently cost-effective for the military to deploy in large quantities.

In this case, the U.S. Army and the U.S. Marine Corps were in need of a ruggedized IP-Over-Satellite appliance with specific requirements and the ability to fit into existing hardened protective cases already installed in various vehicles. Comtech EF Data, the satellite equipment supplier to both the U.S. Army and the U.S. Marines, tasked NCS to design and manufacture a x86 based appliance running Linux to aggressively compress and decompress network data for transmission over terrestrial satellite links. The appliance must deliver high CPU performance yet draw little power and withstand unpredictable combat environments.



CUSTOMERS

The United States Army
<http://www.army.mil/>

The United States Marine Corps
<http://www.marines.mil/>

PROJECT

The Hardened Portable IP-Over-Satellite Appliance

CHALLENGE

Soldiers and Marines operating combat support vehicles needed to stay connected with network resources in the rear. Existing IP-Over-Satellite technology makes this connection possible. However, a customized, mission specific appliance that allowed troops to easily setup the connection and performed dependably and securely in harsh conditions was required.

SOLUTION

NCS designed and built cost-effective, hardened half and full rack IP-Over-Satellite appliances with dimensions, security and power consumption characteristics that could be reliably and deployed in combat support vehicles.

BENEFITS

The U.S. Army and the U.S. Marines now have a cost-effective solution for troops to stay connected while engaged in combat support. The appliance is easy to use—simply turn it on and it will do its job. The NCS Hardened Portable IP-Over-Satellite Appliance is reliable no matter what environment the vehicles operate in and it is secure—leaving no chance for sensitive or classified data to fall into the wrong hands.



Sharply Focused. Quality Driven.

