COMMAND ON THE MOVE: HOW RUTX11 GIGABIT ROUTER POWERS RED CROSS DISASTER RESPONSE

HIGHLIGHTS

✓ Capestone BV is a leading specialist and value-added distributor offering cellular and wireless solutions for the enterprise market along with 1st and 2nd line technical support and optional services such as M2M data plans.

✓ When disasters struck, the Red Cross struggled with unreliable internet, leaving mobile teams disconnected and unable to respond effectively—until a rugged, dual-router solution powered by 4G LTE and remote management tool turned their command units into fully independent, always-connected hubs.

✓ With support from Capestone BV and Teltonika RUTX11 routers, the Red Cross now runs a reliable, self-contained command unit that enables coordination, data sharing, and communication—even without fixed infrastructure.
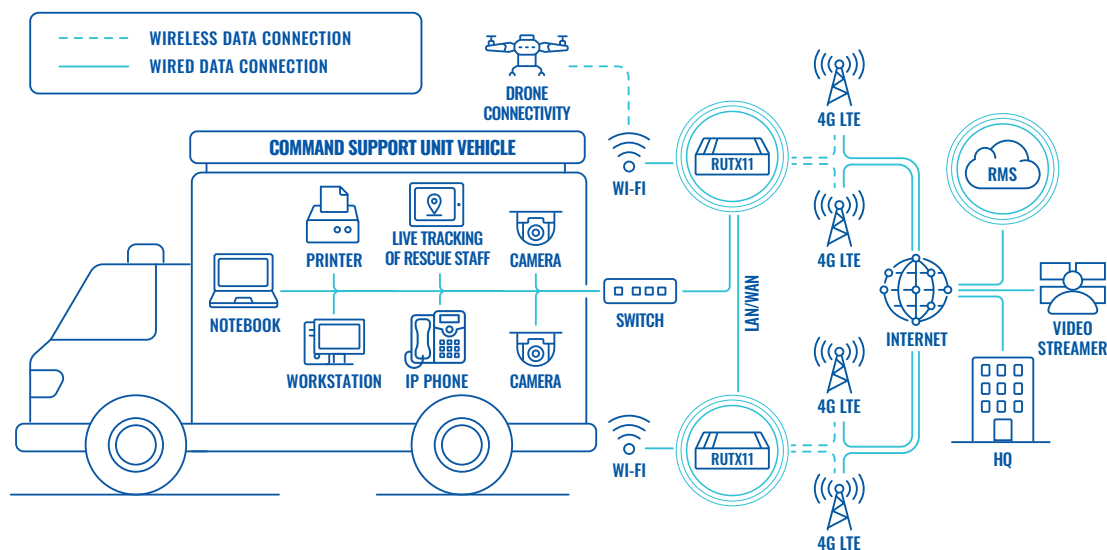
THE CHALLENGE — NO SIGNAL, NO RESCUE

When disaster strikes, time is critical — and so is communication. But in most large-scale emergencies, internet infrastructure is either unreliable or completely unavailable. Natural disasters like earthquakes, floods, or wildfires often damage cell towers, cut power lines, and overwhelm local networks. Yet, these are precisely the moments when real-time data sharing, GPS tracking, and secure communication are needed most.

Consider this: in 2022 alone, over 387 catastrophic events were recorded worldwide, causing more than $220 billion in damages and affecting over 185 million people, according to the United Nations report. Many of these disasters struck areas where connectivity was already weak. According to the International Telecommunication Union, around one-third of the global population remains offline, particularly in rural and underserved regions.

For humanitarian organizations like the Red Cross, establishing a reliable internet connection in the field isn't optional — it's mission-critical. Their mobile command units need to operate autonomously, supporting medical teams, logistics, and decision-makers from anywhere — even in the middle of nowhere.

TOPOLOGY

WIRELESS DATA CONNECTION
WIRED DATA CONNECTION

DRONE CONNECTIVITY

COMMAND SUPPORT UNIT VEHICLE

PRINTER
LIVE TRACKING OF RESCUE STAFF
CAMERA

NOTEBOOK

WORKSTATION
IP PHONE
CAMERA

WI-FI
RUTX11

SWITCH

LAN/WAN

WI-FI
RUTX11

4G LTE
4G LTE
4G LTE
4G LTE

INTERNET

RMS

VIDEO STREAMER

HQ

THE SOLUTION — CONNECTIVITY ON THE MOVE

To tackle these connectivity challenges, the Red Cross integrated a professional-grade mobile networking solution into their command unit — built around not one, but two RUTX11 routers. These devices are interconnected to switch seamlessly between four mobile operators, ensuring robust connectivity at all times.

These routers serve as the central connectivity hub for the entire mobile command unit — and this is where the power of 4G LTE comes into play. The widespread reach of 4G router technology delivers critical connectivity where wired infrastructure falls short. It's the backbone of modern emergency response—and the standard in the field.

To ensure continuous access, the Red Cross uses four SIM cards from different providers, enabling automatic failover if one network drops. This intelligent industrial router configuration keeps the mission online, even in weak signal zones. Thanks to advanced SIM router functionality, the RUTX11 instantly switches between providers, maintaining communication when it matters most.

Inside the vehicle, the dual RUTX11 gigabit routers power both Ethernet and wireless connections. Their dual-band Wi-Fi and wired interfaces make them an ideal gigabit router solution for high-bandwidth mobile environments. Drones, laptops, tablets, and cameras operate smoothly under a unified network.

For tracking and coordination, the routers are equipped with GNSS (GPS) — enabling real-time location monitoring for navigation and operational oversight. RMS (Remote Management System) support allows IT teams to push updates, monitor performance, and troubleshoot remotely. This remote management tool gives full visibility and control, ensuring optimal performance in the field with minimal downtime.

Designed for durability, RUTX11 SIM routers come in rugged aluminum housing and operate across a wide range of temperatures. Whether deployed in scorching heat or freezing cold, these industrial routers continue to perform — making them ideal for unpredictable rescue missions.

The outcome? A fully autonomous mobile command center that functions reliably even when local infrastructure is unavailable. With this setup, the Red Cross can respond faster, coordinate better, and stay connected longer—wherever the mission leads. It's a clear example of how the Internet of Things and transportation intersect to create critical, life-saving communication systems on wheels.

The RUTX11 is a top choice for anyone searching for the best gigabit router for emergency scenarios. Want to strengthen your mobile operations with reliable, field-proven connectivity? Contact us today to discover the ideal solution for your needs.