

Case Study: Delivering Connectivity for Disaster Relief

Mobility Solutions for Rescue Units, Myanmar



Executive Summary

The Challenge

Provide secure communications during emergency operations

The Solution

- Gilat's SatTrooper terminal provides rapid connectivity to data, voice and telephony even under the harshest conditions
- Antenna assembled within minutes without special tools

Benefits of Gilat

Gilat's turnkey solution includes:

- Portable
- Simple deployment
- Low power consumption
- Fully integrated



In Myanmar, Gilat's SatTrooper terminals answer the need for a secure, lightweight, and easily deployable communications network.



The name of the game in today's communications is mobility. Gilat's Satcom on-the-Move solutions are especially suited for the kind of emergency operations that our client was concerned about. We chose Gilat for its unique technology and because it is a one-stop shop with a fully integrated solution.



U Tay Za Tun,
CEO, Terabit Wave

The Challenge: Satellite Communications for Rescue Operations

Tasked with rescue operations in a country routinely afflicted with natural disasters, a Myanmar government agency needed to be certain that their personnel in the field could securely communicate with their command unit during emergency operations. Many such operations take place in remote areas where terrestrial communications do not exist. With limited accessibility and resources, portability and ease of use are critical.

When the agency put out a requisition for a Ku-band satellite-based communications network, local solution provider Terabit Wave answered the call. After carefully reviewing the requirements, Terabit Wave called upon Gilat to supply the equipment necessary to satisfy the agency's needs.

The Solution: A Fully Integrated, Lightweight Manpack

As a standalone, self-contained solution, Gilat's SatTrooper terminal provides rapid connectivity to data, voice and telephony even under the harshest conditions. The 45 or 60 cm dish antenna can be assembled within minutes and does not require any special tools. Once deployed, the antenna automatically points towards the satellite. Its low power consumption enables several hours of continuous operation without changing batteries.

The SatTrooper is an integrated terminal: the antenna, modem, block up-converter (BUC) and a low-noise block (LNB) down-converter are incorporated into a single ruggedized unit. The entire system fits into an ergonomic backpack that can be carried anywhere ideal for the agency's need for a terminal that can be transported and deployed easily.

SatTrooper leverages Gilat's MLT1000 modem, which supports reliable data, voice and video transmissions. This particular modem combines high availability in secure mode with excellent performance, even when the Signal-to-Noise Ratio is low. An optional remote control unit (RCU) enables operation and configuration from a safe location or shelter, a feature which allows communication over secure channels even when emergency conditions prevail.

The Gilat Advantage

Deploying Gilat's SatTrooper provides the Myanmar government agency with several benefits:

- Portable: Lightweight — at 13.5 kilograms, it can be carried anywhere in its ergonomic backpack
- Simple deployment: Up and running in less than five minutes
- Low power consumption: A single battery provides more than four hours of operation
- Fully integrated: All essential components are built-in: antenna, modem, ACU and BUC



SatTrooper Terminal