The United States southern border is 1,933 miles of secured and unsecured area between US and Mexico. Given the massive scale of the border, the US agencies tasked with enforcing immigration laws do not currently have the man power and infrastructure to successfully monitor and control the entire perimeter. In addition, the current political climate and public interest into securing the border without spending large amount of capital expenditure to build permanent installations is at an all-time high.

Setting up permanent situational awareness and communication in all areas of the border is not cost effective and cannot be completed with the current budget of man power and technology. Each permanent sensor or computer site on the border can cost millions of dollars to build and maintain. Despite the cost, the men and women enforcing the immigration laws of the United States rely heavily on communications and enterprise applications to enable them to effectively perform their mission. This challenge is exacerbated by limited man power, and so the Border Patrol seeks to leverage advanced technologies to reduce its physical infrastructure footprint and contain costs.

The Acuity Micro Data center helps to solve the technical problems associated with law enforcement operations in austere environment with frequently unavailable traditional communication methods such as cellular or other connection to broadband. What is required is the ability to set up ad-hoc communications capabilities and consumption of any applications that help provide agents with a common operating picture and the ability to communicate with each other and command and control effectively. There is no need for a permanent installation along the border when a small team can bring the required infrastructure with them.

In a small 30 pound form factor, Acuity contains extensive processing power, multiple cellular and WiFi modems, is SATCOM ready, and features a host of customizable software-defined communication and processing applications. For a fraction of the cost of setting up permanent physical infrastructure and buildings to house servers, electricity, and communication links in multiple locations, teams with multiple Acuity units are able to re-locate as needed to handle threats and ascertain what actions need to be taken at the source of the problem.

**Use Case:**

**Customs and Border Control**

**BACKGROUND**

**PROBLEM**

**SOLUTION**

**OUTCOME**

- Provide critical mobile infrastructure for edge processing and communication in austere environments
- Ability to run applications in remote locations with or without the availability of a network connection
- Significant reduction in infrastructure and technology costs and permanent installations across the border
- Provide rapid response functionality to establish situational awareness for remote teams

**ACUITY: Bring the technology to the border, not the border to the technology!**