

Internet. Anywhere.

Tekniam has developed RUCS, a customizable and instant solution to *bridge the digital divide*.

RUCS is both affordable and rapidly deployable, bringing reliable *last mile connectivity* to communities that need it most.

Tekniam is a proud American Company that designs and manufactures the RUCS in Kansas.



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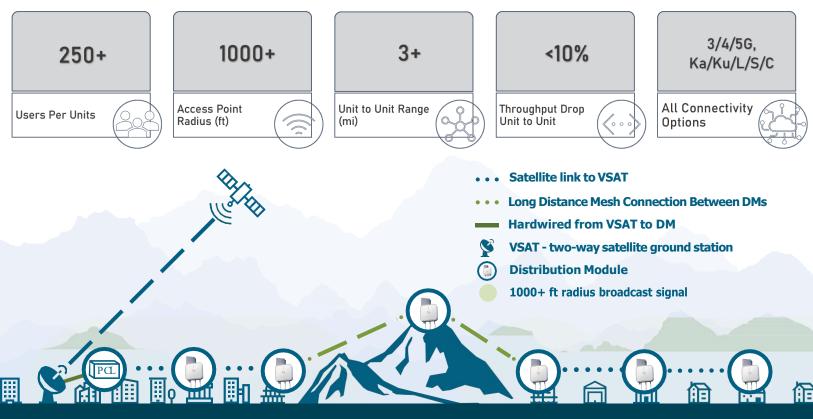
# The Remote Universal Communication System (RUCS) is an edge-based telecommunications grade network. It provides users with:

Portable Communications Link (PCL) creates a standalone local internet or cellular network signal from any available wide area network.

Distribution Module (DM) connects directly to the PCL or existing networks, broadcasts signal in a 1000+ ft radius and extends that signal across a wide area.

TekMESH<sup>™</sup> Operating System (TOS) manages deployments from the Cloud.

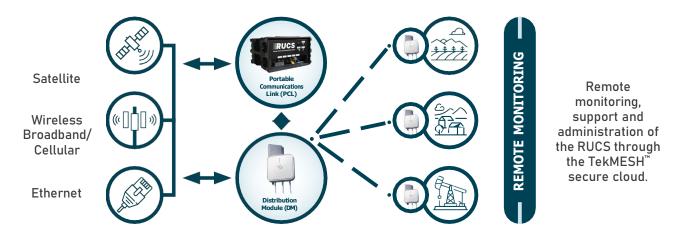
Remote Monitoring and real-time technical support.



www.tekniam.com | tstranahan@tekniam.com | 1-(877)TEKNIAM 15501 W. 100th Terrace, Lenexa, KS 66219



Portable Communications Link (PCL) creates a standalone network, aggregating the signal from existing satellite, ethernet, broadband or cellular networks.



DMs extend network signal from a PCL or any Ethernet source. They broadcast signal locally over a 1000+ ft radius and extend signal over a wide area through a wireless mesh network.



## Connectivity

- Environmentally Hardened Industrial Router
- LTE/5G Cellular Modem
- Up-Link Connection Options:
- » Wired WAN/LAN
- » Ka or Ku Band Satellite
- » Point-to-Point Radio backhaul
- » RJ-45 IEEE 802.3AF
- 8UZ.3AF
- » 10/100/1000 Ethernet Switch » 1G Network
- Backplane

#### Power Features

- External: » 120/240 VAC
- » Portable Generator providing 120/240 VAC or 12 VDC
- » 12/24/36 VDC Solar or Wind
- Internal:
- » Battery Backup for power smoothing and normalization
- » 5/12/24/48 VDC per equipment requirements

# DM



# Connectivity

- 2.4 GHz Highpower Access Point Radio
- » Up to 250 Simultaneous Wi-Fi Connections
- 3x3 MIMO Wave 2 Protocols
- 3 Omnidirectional antennas
- 1000+ ft radius coverage
- User connectivity via 802.11 a/b/g/n 3x3 MIMO Wave 2 Access Point
- Network meshing via 802.11ac 2x2 MIM0
- High Power Al Routed Directional Radios

## **Power Features**

- US-made Single Board Computer (SBC) with custom OpenWRT Operating System
- IP-67 rating
- Wind Survival: 140 km/h
- 0.5 amp 48V DC power via POE
- Temperature Range: -20C to +70C
- Operating Humidity Range 5 to 95%
- Lightning Resistant:
  » 5000 amp surge
- tolerant
- » IEC 61000-4-5