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.



**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™ Operating System (TOS)** manages deployments from the Cloud.

Remote Monitoring and real-time technical support.





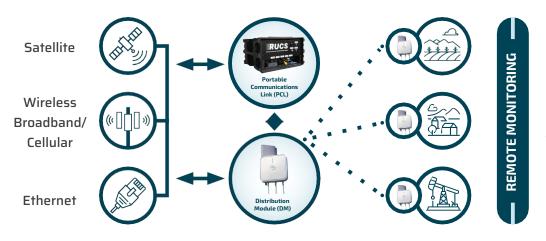








Portable Communications Link (PCL) creates a standalone network, aggregating the signal from existing satellite, ethernet, broadband or cellular networks.



Remote monitoring, support and administration of the RUCS through the **TekMESH**\*\*
secure cloud.

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
- » 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 High-power Access Point Radio
- » Up to 250 Simultaneous Wi-Fi Connections
- 3x3 MIMO Wave 2 Protocols
- 3 Omni-directional antennas
- 1000+ ft radius coverage
- User connectivity via 801.11 a/b/g/n 3x3 MIMO Wave 2 Access Point
- Network meshing via 801.11ac 2x2 MIMO
- 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