

Solution Brief

Insight Solar Network Rapid Deployment Unit (RDU)

Create a mobile, solar-powered network platform customized to your use cases.

Wireless connectivity has become a critical component of everyday life. From construction site operations to remote learning environments, accessible, secure wireless networks are a basic need. But, with complexities like permit requirements and power limitations, building out a broadband network isn't always feasible, especially on short notice or for short-term applications.

Insight's Solar Network RDU solutions are completely customizable and enable organizations to stand up reliable wireless connectivity easily and quickly, nearly anywhere. Insight is the premier technical solutions integrator, and for this offering, we've partnered with Watchdog Equipment, the premier mobile solar power platform provider. The result is a one-of-a-kind solution for wireless service that can help public and private organizations create flexible, affordable network access wherever and whenever needed. Wireless technologies include cellular/private LTE/CBRS and Wi-Fi options available from many different manufacturers. Customization includes site surveys, rigging, configuration, testing, setup, and training.



How it works:

Insight's Solar Network RDUs are architected on Watchdog's industry-leading mobile, solar power trailers to client network specifications. Rugged, single- or double-axle trailers are equipped with hydraulic masts for better alignment of communications equipment, 550-watt solar panels for silent and reliable 24/7 power, and customized wireless network components to suit any client scenario.

Use cases



Construction sites

- Seamless connectivity for all build-out phases
- Avoid power limitations and signal interference



Outdoor community wireless

- Short- or long-term public wireless access
- Connectivity without fiber or broadband on-site



Disaster and emergency response

- Reliable mobile communications
- Ruggedized equipment for any event

Insight services for RDUs

Full wireless equipment design

Leveraging deep industry partnerships with wireless technology vendors, we'll help you choose the wireless device best fit for your application, determine the number of units for optimal connectivity, and configure your solution specifically for the environment in which it will be deployed.

Ongoing maintenance and support

As a premier Managed Services Provider (MSP), Insight can also provide full monitoring and managed services for RDU solutions, relieving your teams of the operational burden of maintenance and ensuring you receive maximum value from your mobile wireless network.

Why Insight



Deep expertise in network solutions and RF service delivery

300+

network and wireless projects per year



3,000+

technical certifications



Strategic partnerships with all major technology providers

Hold major contracts, including SEWP V, GSA, CIO-NS, and OMNIA Partners

Develop solutions that are compliant with HIPAA, FIPPs, ITARS, GDPR, CCPA, PCI-DSS, FISMA, NIST 800-53, and others

