Rapid Deployment Solutions

Raise your infrastructure quickly, easily and virtually anywhere

Remote locations. Harsh environments. Strict requirements. Tight schedules.

When your industry takes you off-road, off the grid or completely off the map, the only physical infrastructure you have is what you can build on site to support communications, data transfer, lighting, monitoring, power generation and more.

In remote locations, the cost, durability and deployment speed of the physical structure supporting your network infrastructure is of paramount importance. While cost always matters, schedules are often less flexible than budgets, so, even when you're off the beaten path, you're always on the clock.

Your solution needs the strength of steel to carry the load, meet performance expectations, and stare down the harshest climate conditions. It must offer a measure of adaptive flexibility that enables you to deploy in a variety of ways to conform to local geological and regulatory restrictions—and there are no shortages of either.

Conventional methods of erecting structural steel poles can take days, weeks or even months. A reliance on reinforced concrete foundations can make it difficult to install in remote locations or where local laws or unusual geological conditions may appear to prevent any possible construction.

Structural steel poles support your entire infrastructure

- Remote data communications
- Wireless/Wi-Fi concealment
- Substations
- Power distribution
- Lighting
- Video surveillance
- Wind and solar power

Solutions that are speedy, budget friendly, reliable and flexible.

Don't settle for any structural steel. Stay fast and flexible with Rapid Deployment Solutions.

Built of hot-dip galvanized steel to make them lighter and stronger than wood or comparable steel lattice designs, Rapid Deployment Solutions address your need for budget-friendly speed, reliability, capacity and flexibility.

They provide a reliable platform for your infrastructure no matter where you need it. This includes locations where you can't use a crane—and even areas offering as little as two square feet of available space.

Rapid Deployment Solutions are antenna agnostic and feature generous effective projected area (EPA) loading guidelines. And, because they're from CommScope, they also offer you access to our complete line of antennas, mounts and other hardware for total compatibility and superior performance. View our product data sheets for specific information, including EPA load ratings.

Rapid Deployment Solutions advantages

- Speed: Installs in as little as one hour

- Heights: Standard from 20' to 80'

- Composition: Hot-dip galvanized steel

- Options: Light-, medium- and heavy-duty

- Bracing: No wires needed

- Space: Installs in as little as 2 ft^2

- Types: Embedded, ballasted or helical

- Power: Optional solar or wind

- Compatibility: Antenna agnostic

- Support: Complete line of CommScope mounts and antennas

Flexibility in design allows flexibility in deployment

When there's no telling what kind of terrain or zoning laws you'll be facing, CommScope's Rapid Deployment Solutions have you covered in three distinct ways for maximum flexibility:

- Embedded poles are anchored in excavated holes back-filled with three-quarter-inch aggregate instead of poured concrete. Not only does this method meet the ANSI requirements under TIA 222 G, it's faster and less expensive to deploy than concrete.

- Ballasted poles require no drilling at all since they are anchored to a weighted platform that sits on level ground. Unlike other ballasted options that call for hard-to-procure and expensive-to-ship concrete blocks, CommScope's ballasted solution utilizes three-quarter-inch aggregate, which can be locally sourced and more easily transported.

- Helical-base poles bolt directly to a screw-in helical auger. Each auger is drilled directly into the soil until the required pressure threshold is reached—taking as little as an hour to deploy.

- Hinge poles enable you to remotely operate any of the three techniques above with only one technician—eliminating installation or maintenance climbing for maximum safety.

Since no concrete is poured, each of these designs may be as permanent or temporary as you need—allowing for simple, cost-effective removal and even relocation.

Hinged Poles

Ballasted poles

Embedded poles

Helical foundation

Whatever you expect your site to do, we'll support it

Rapid Deployment Solutions work seamlessly with related CommScope solutions and products, including antennas, mounts, cabinets, cabling and much more. Combined with their generous EPA loading guidelines, these antenna-agnostic solutions give you the freedom to install the infrastructure you need, such as:

- Supervisory control and data acquisition (SCADA) communications

- Point-to-point microwave or wireless backhaul

- 4G/LTE connectivity

- IP/multiprotocol label switching (MPLS) network communications

- Wi-Fi or WLAN connectivity

- Video surveillance or lighting

No grid? No problem.

Your pole-mounted equipment must be up and running fast—with the grid or without. Because so many installations are remote and inaccessible, Rapid Deployment Solutions include options for scalable solar and wind power generation capabilities where permitted.

With options for both hot and cold climates, get your site online faster and at less cost.

Solar configuration (up to eight panels)

Cold climate:
- 500–1500 Wp solar capacity

- 70–305 W maximum load

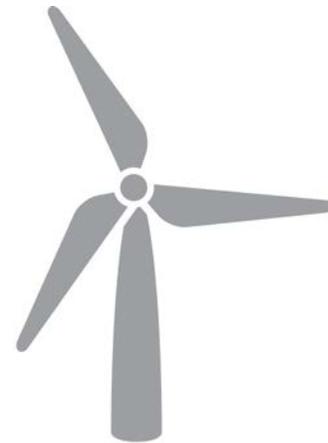- 190–380 Ah battery capacity

- Passive air cooling

Hot climate:
- 1500–2250 Wp solar capacity

- 120–270 W maximum load

- 380 Ah battery capacity

- Active cooling

Wind turbine configuration

- Single or dual turbines

- 3.5 kW generator with neodymium magnets

- Full remote monitoring and control available

- Power assist function increases power and prevents icing

Energy production with a single turbine:

Annual mean wind speed (m/s)					
3	4	5	6	7	8
260	660	1260	2050	2970	192

Annual energy production (kWh)

* Theoretical data based on wind analysis with a single unit

** Does not account for energy lost due to battery charging, discharging or inverters

*** Based on utilization of a Zephyr Airdolphin Mark-Zero/Pro turbine. For more details, please visit Zephyr's website.

Tailored to three markets for maximum efficiency

While the applications for Rapid Deployment Solutions are virtually unlimited, several foundational industries—the engines that drive the modern marketplace—can enjoy immediate benefits from the innovation and expertise CommScope builds into every unit.

Oil, gas and energy

- Depend on structural steel poles for data, phone and internet communications, coupled with power distribution, lighting and video capabilities. Rapid Deployment Solutions do all this and more.

- Exploration and expansion keep you on the move. Since these solutions can be installed in just hours, they can be easily and quickly incorporated into even the most demanding timelines or locations.

- Because they often rely on unlicensed communications bands, Rapid Deployment Solutions offer antenna-agnostic support for any frequency supporting any kind of operational data.
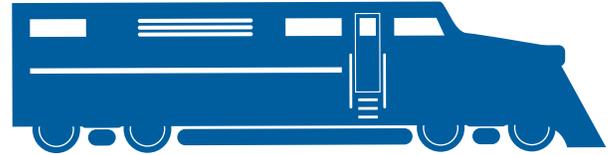
Public utilities

- When security is vital, you can count on Rapid Deployment Solutions to deliver the lighting and video surveillance capabilities you need, wherever you need them.

- Rapid Deployment Solutions offer the strength to support power distribution infrastructure in all kinds of terrain, including custom cabinets and utility boxes.

- As the cost of building new sites and substations increases, the flexible deployment options of Rapid Deployment Solutions can help you grow as needed—minus the hidden costs or unforeseen delays.

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Rail transportation

- As aging wooden power, communications or signal poles require replacement, Rapid Deployment Solutions allow for quick installation with minimal downtime.

- Since Rapid Deployment Solutions are rated to last more than 10 times as long as wooden poles in similar applications—with fewer maintenance problems over the product lifetime—total cost of ownership declines significantly.

- Safety-minded companies can maximize safety with Rapid Deployment Solutions' no-climb hinged design or removable step-pegs that discourage any unauthorized access.

A solution built for you. A solution built for now.

Flexible, dependable, fast and consistent, CommScope's Rapid Deployment Solutions can help your network grow wherever it needs to, as fast as it needs to. When you need a rapid response to a pressing challenge, turn to CommScope for the expertise and experience you trust to raise and support your infrastructure quickly, easily and virtually anywhere.

Everyone communicates. It's the essence of the human experience. How we communicate is evolving. Technology is reshaping the way we live, learn and thrive. The epicenter of this transformation is the network—our passion. Our experts are rethinking the purpose, role and usage of networks to help our customers increase bandwidth, expand capacity, enhance efficiency, speed deployment and simplify migration. From remote cell sites to massive sports arenas, from busy airports to state-of-the-art data centers—we provide the essential expertise and vital infrastructure your business needs to succeed. The world's most advanced networks rely on CommScope connectivity.

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Visit our website or contact your local CommScope representative for more information.

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