

Antenna Assembly Fabrication



Built to Order Antenna Assemblies

The standard paddle antennas that ship alongside many of our clients industrial cellular routers are not always suitable for use within their IoT and M2M communications projects. Most commonly, industrial communications require externally mounted, high-powered, and ruggedized antennas systems that deliver quality performance in fixed or mobile environments. The team at USAT is well equipped to meet such requirements.

Fixed Antenna Systems | In-Building Connectivity

Many buildings are constructed from large quantities of steel, concrete, and low-e glass that can impede or otherwise prevent cellular signals from propagating effectively indoors. Placing a branch or IoT router within such buildings with standard paddle antennas can prevent stable connections to even the most robust carrier networks. With externally mounted fixed antenna systems from USAT, we can ensure your routers can connect reliably to cellular carriers for both primary and back-up communications while also fabricating antennas for in and outdoor Wi-Fi applications depending upon your business use case.

Long-Range Antenna Systems | Rural and Remote Connectivity

Organizations with remote outdoor pieces of critical infrastructure struggle to achieve reliable connectivity to their distant assets. More often than not, major cellular carriers have coverage gaps and capacity issues in rural environments that can result in little to no connectivity. With sensor networks constantly communicating pressure readings in oil pipelines, voltage levels in electric distribution systems, traffic data from highways, and more, both public and private organizations need antenna systems that can ensure the most reliable connectivity possible, even when off-grid or on your networks edge. USAT stocks and custom fabricates antenna assemblies for long range applications to ensure those and other systems stay up.

Mobile Antenna Systems | Vehicle Connectivity

Whether your organization deals in public or private transit, freight or logistics, field services, or public safety, you probably have an extensive fleet that requires reliable connectivity for effective dispatch-related fleet operations. Vehicles and mobile assets regularly pass through areas of great to poor connectivity throughout the day. For your mobile applications we can fabricate and install in-cabin and roof mounted omni-directional antennas for Wi-Fi, GPS, and cellular (4G and 5G) applications within each of your vehicles to maximize connectivity for CAD, video, fare collection, passenger Wi-Fi access, and more.



The Team | Device Provisioning, Activation, and Installation Services

For the last 27 years, the cellular networking solutions team at MCA has provided expert connectivity solutions to public and private organizations in need of top-of-the-line connectivity devices and platforms to manage their vital communications infrastructure. We provide top-tier support for all aspects of our customers mission and business-critical connectivity projects. Our technicians and installation teams assess your needs and engineer customized solutions to outfit your organization with the hardware and software required to fit your exacting needs.

CONTACT US TO MAKE YOUR WORKPLACE MORE SAFE, SECURE, & EFFICIENT



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