MobileMark antenna solutions®

QUARTERLY NEWS

Antenna Planning for Public Safety Fleets and K–12 Campuses

Public safety agencies and school districts are connecting more vehicles, buildings, and security systems. The connected equipment usually gets most of the planning attention and budget, while the antenna that ties it all together is an easily overlooked part of the project, often added late and without much thought.

On a recent episode of the GovIT podcast, Christopher Talbert, Business Development Manager at Mobile Mark, joined host Tom Tammen to talk through why the antenna deserves earlier attention and what to consider when selecting one for public safety fleets and K–12 campuses.

1. Better equipment will not fix a weak antenna installation. Upgrading routers and radios does not improve connectivity on their own. The antenna and its installation must match what the equipment can do. A router built for four cellular antennas, connected to an antenna with two, cannot deliver the performance it was bought for.

Gain is no different. Buyers often ask for it first, but rated gain is measured in a lab. In the field, the mounting surface, cable run, and nearby structures decide how much of it you actually get. Higher gain also narrows the pattern, reaching farther in some directions and less in others.

2. Start with the equipment, then work outward. Begin with the router, radio, modem, or gateway; then its antenna ports, technologies, and frequencies; and only then the mounting location, cable run, connectors, and environment. Working in that order prevents choosing a roof antenna before anyone knows what it has to connect to.

3. Public safety vehicles are consolidating antennas. A police or fire vehicle can run LTE, WiFi, GPS, Bluetooth, and UHF, VHF, or P25 radio at the same time. A few years ago that meant five or six separate antennas. A multiband antenna now cuts that to two or three, with fewer roof penetrations and cable runs to maintain. Four (4) Mobile Mark multiband antennas (the MXG900, LTMWG900, LLPG08, and MXFG08) combine 5G/LTE, WiFi, and GNSS in a single housing while maintaining exceptional performance and have earned Verizon Frontline Verified status.

4. K–12 coverage now reaches well past the classroom. Districts are extending connectivity to parking lots, athletic facilities, remote buildings, and school buses for student WiFi, security cameras, and emergency communications. Some are adding cellular backup or evaluating private LTE, 5G, and CBRS. Many of these sites are hard to wire or only temporary, so the antenna must suit both the location and the network. That might mean a weatherproof antenna on an existing light pole at the athletic field, a compact indoor mount in a portable classroom, or a rugged multiband antenna on a school bus roof.

5. Plan for the equipment you will add next. Routers and gateways continue to evolve, adding bands and antenna ports, and agencies want more LTE redundancy. Finalizing the antenna configuration and mounting with the next equipment upgrade in mind, while keeping mounting locations and cable routes flexible, avoids reworking the installation later.

Listen to the full episode →

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Tesla Networks: Why an Integrator Wanted More Than Just a Supplier

> Mobile Mark isn't just a supplier, they're family.
>
> **Bart Pen, CEO**

Tesla Networks is an integrator that takes connectivity projects from early consultancy through installation and long-term support. Most of its work is in transport, including fleet management and GNSS positioning, with additional projects in public safety and connected robotics.

The relationship goes back to 2005, when Bart Pen called Mobile Mark looking for an omnidirectional antenna for a customer project. He was working for another company at the time. When he founded Tesla Networks in 2010, he kept Mobile Mark as a supplier.

An integrator answers to its own customers for every installation, so Tesla is selective. It wants a supplier that owns its technology, understands the market, and is willing to adapt a product to fit the project. That matters more as public transport moves from WiFi-centered systems to 4G and 5G, where the antenna carries more of the connection.



What "more than a supplier" looks like on Tesla's transport projects

- Compact antennas that fit limited installation space
- Rugged construction for long service life in harsh vehicle environments
- Custom cable lengths and connector configurations, with certified low-loss cabling, so each antenna arrives matched to the install
- Less maintenance and downtime, and a lower total cost of ownership over the life of the deployment

Read the Full Tesla Networks Testimonial →

Mobile Mark Joins Astute Group at MSPO 2026

MSPO (Międzynarodowy Salon Przemysłu Obronnego), the International Defence Industry Exhibition held each September in Kielce, Poland, is one of Europe's major defense shows. Organized with the Polish Ministry of National Defence, its 34th edition (8–11 September) drew more than 1,000 exhibitors from 40 countries, with counter-drone systems among its most prominent themes.

Mobile Mark attended with Astute Group, a UK-based component distributor that has served the defense sector for more than 35 years. The partnership, formed earlier this year, connects Mobile Mark with European defense integrators and prime contractors. MSPO followed the pair's first show together, Enforce Tac in Nuremberg.

Patrick Simpson, Sales Executive at Mobile Mark, met with OEMs and system integrators working in defense and security. Three requirements ran through those conversations, and each puts specific demands on the antenna.



Drone Jamming

Drones use a wide spread of frequencies for control and video links. Counter-drone systems need antennas that cover that range and handle transmit power when jamming.



Vehicle Communication Platforms

Military vehicles must fit multiple radios and data links into limited space, the same integration challenge public safety fleets face in their deployments.



Autonomous Border Control

Unattended sensor and surveillance sites need antennas that keep performing without regular maintenance visits.



TMA-WB1 + TMA-GPK Ground Plane Kit

Built for counter-drone and spectrum monitoring systems, the TMA-WB1 with the TMA-GPK covers 300–7200 MHz from a single antenna, holds its radiation pattern at the horizon for wide-area coverage, and is rated for up to 300 W of RF power.



View the TMA-GPK →

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Helping Train the Next Generation of Antenna Engineers

In September, Jonas Starck, Senior Manager of Product Innovation at Mobile Mark and Managing Director of ProAnt, gave a lecture on the radiation of antennas to students in Umeå University's Master of Science Programme in Engineering Physics. He has lectured there for several years.

Jonas has designed antennas since 1998, and his lecture connects the theory students learn in coursework to how antennas behave in real products. That includes how a cable, connector, or mounting surface affects performance once an antenna is installed, and how engineers measure it.

Why ProAnt stays involved in engineering education:

- Students hear antenna theory from an engineer applying it in current designs.
- ProAnt stays connected to the RF engineers coming out of Umeå's program, in the same city where the team works.
- Customers work with engineers who are practiced at explaining why an antenna behaves the way it does, which matters most when a project needs something no existing antenna delivers.



Mobile Mark Completes ISO 9001:2015 Recertification

ISO 9001 is the international standard for quality management. Certification means an independent registrar has audited how a company designs and builds its products, controls its processes, handles problems, and acts on customer feedback. Certificates run for three years, with annual surveillance audits in between and a full reassessment at renewal.

For customers, this means the processes behind each antenna are documented, controlled, and independently checked, and that when a problem occurs, a defined process identifies the cause and corrects it, which keeps the product consistent from one order to the next and maintains customer satisfaction.

Mobile Mark has completed its three-year recertification audit with Verisys Registrars and remains certified to ISO 9001:2015 through September 2029. The certification covers both the design and manufacture of antennas and cable assemblies at Mobile Mark's Itasca, Illinois headquarters. The updated certificate, effective September 21, 2026, is available for supplier and vendor files.

Download Mobile Mark's ISO 9001:2015 Certificate →



Inside Mobile Mark's Antenna Environmental Testing

Antennas on vehicles, poles, and outdoor sites absorb shock, vibration, impact, water, and dust for years. A new Mobile Mark video shows how new antenna designs are tested against those conditions, using the rugged RM-WB1 as an example.

Watch the brief video featuring the RM-WB1 →

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NOW AVAILABLE

LTM900 Series



As of September 1, the next-generation LTM900 Series is available to order. It carries forward the multiband coverage that made the LTM platform the best choice for fleet, transit, and public safety vehicles, now in a redesigned housing built for highway and rail speeds.

What's New:

- 15% smaller by volume, with reduced drag and wind resistance
- Faster ice and water shedding to limit buildup in harsh weather
- Custom colors to match fleet vehicles or keep tactical vehicles low visibility
- Optional high-temperature materials rated to 100°C, and U.S. passenger rail-compliant materials (NFPA-130 / UL-94 V-0

View the LTM900 Series →

5G/LTE Ready
5G/LTE from 617–960 MHz and 1710–7200 MHz with dual-carrier 2x2 MIMO

WiFi + GNSS
WiFi 6E, WiFi 7 ready up to 7.2 GHz
GPS, Galileo, GLONASS

RATINGS
Shock and vibration: IEEE-1478, EN61373, MIL-810G; Dust and water: IP69K

NOW AVAILABLE

EOD925 Antenna with Mount



Sub-GHz gateways often end up in a cabinet or closet, which is rarely the best spot for reception. The EOD925-K-120 gets the antenna out of there. It pairs the rugged EOD925 omnidirectional antenna with a universal mount and 10 ft of LL-195 low-loss cable under one part number. Hardware for desk, wall, ceiling, or window mounting is included.

- 870–960 MHz, 2.5 dBi gain
- IP67 rated, -40°C to +80°C
- RP-SMA plug for MultiTech Conduit® and Conduit® AP 300 Series gateways
- Other cable lengths and connectors available

The kit fits LoRaWAN and sub-GHz IoT networks in K–12 school safety systems, commercial building automation, utilities, and manufacturing and warehouse automation.

View the EOD925-K-120 →

COMING Q4 2026

GMAX900 Series



The GMAX900 takes antenna consolidation a step further. It combines cellular (LTE, 5G, and 5G RedCap), WiFi 6E, and GNSS in one housing, with a standard NMO mount for the LMR antenna, all through a single roof hole. Because the LMR antenna is separate, you can match it to the radio or change it later without replacing the rest. Expected Q4 2026.

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