POYNTING

ENGINEERED FOR SPEED, BUILT FOR PERFORMANCE

POYNTING ANTENNAS DELIVER RELIABLE
CONNECTIVITY ON EVERY LAP

BEYOND A CONNECTED LIFE

CONNECTIVITY
That Drives Performance

In the world of motorsport, speed alone doesn't win races, **data does**. From rally stages to racetracks, the ability to transmit real-time telemetry, live video, and safety-critical information is now a fundamental part of competitive racing.

Vehicles and teams operate in high-speed, high-pressure environments where every millisecond counts. Whether it's monitoring battery temperatures, adjusting race strategy on the fly, or broadcasting live footage to global audiences, uninterrupted connectivity is the invisible engine behind it all.

But racing environments are uniquely challenging. Cars are constantly in motion, signal conditions fluctuate, and network congestion—especially in crowded paddocks—can cripple operations. That's why purpose-built antenna solutions are essential. They ensure stable, high-speed data transmission across vehicles and infrastructure, enabling teams to make informed decisions instantly, maintain safety protocols, and deliver immersive experiences to fans and media.

Connectivity in motorsport isn't just about staying online—it's about staying ahead. And with the right technology, what works at racing speeds can transform connectivity in any mobile or mission-critical environment.

WHY CHOOSE POYNTING ANTENNAS?

The Need for Reliable Connectivity in Motion

In high-speed environments, reliable internet connectivity is not just a convenience—it's a necessity. Teams rely on uninterrupted data transmission for real-time telemetry, live video feeds, and instant communication between vehicles and control centres.

Whether it's monitoring safety-critical systems, adjusting strategy on the fly, or sharing live content and media, connectivity underpins every decision and every moment. In these dynamic settings, poor connectivity can mean missed opportunities—or worse, compromised safety.

Transform Your Racing Experience

At POYNTING, we understand the challenges of staying connected in fast-moving, high-pressure environments. That's why we've engineered a range of advanced antenna solutions designed specifically for mobile applications—from race cars to support vehicles and paddock infrastructure. Our antennas deliver high-speed, low-latency connectivity that performs reliably even under extreme conditions. Whether you're streaming live footage, transmitting telemetry, or coordinating team operations, POYNTING antennas ensure that your data flows seamlessly, so you can focus on performance, strategy, and safety without interruption.

UNLEASH THE POWER OF CONNECTIVITY

- Experience **ultra-reliable 4G/5G and Wi-Fi signals** in the most demanding environments
- Say **goodbye to signal dropouts and latency**—even at high speeds or in congested paddocks
- Enable **real-time telemetry**, live video streaming, and instant data access for safety-critical decisions—with zero delay
- Maintain **uninterrupted communication** between vehicles, race control, and support teams
- Identify incidents as they happen and respond immediately—**no waiting for data, audio, or video confirmation**.
- Run your AI and operational processes with confidence, ensure seamless execution without worrying about process completion—**saving valuable time and money.**
- Avoid network congestion by connecting to distant, **less saturated towers or satellite networks**
- Empower your team with **dependable connectivity for strategy** adjustments, media broadcasting, and remote diagnostics

RADIATION PATTERNS:
Consistent Performance, Critical Precision

POYNTING antennas are engineered with precision to shape radiation patterns, ensuring optimal performance regardless of the signal source's location. While others may focus solely on boosting high antenna gain numbers, we prioritize your experience by eliminating the need to worry about signal direction or how to park your vehicle for the best reception. Our antenna solutions deliver outstanding results from any direction, on any frequency, giving you stable, reliable, and consistent connections over time. Experience the peace of mind that comes with POYNTING's radiation patterns, paired with our exceptional build quality, publication of true measured results, and sleek and attractive antenna designs.

RACE-PROVEN ROAD-READY

Unleashing Zero-Delay Connectivity in Motorsport

The NXT Gen Cup: Engineering the Future of Connected Mobility. The NXT Gen Cup is the first all-electric junior touring car series, featuring the 190–230 hp LRT NXT1 with a 60 hp push-to-pass boost. Based on the MINI Cooper SE and powered by a 30 kWh battery, it delivers instant torque and zero emissions, supported by high-speed digital connectivity.

The POYNTING Advantage: POYNTING, through Nathiko B.V., powers electric race cars with rugged PUCK-series 5G antennas, Teltonika routers, and Bondix cellular bonding for seamless data transmission. Nathiko's cloud platform enables live telemetry, safety monitoring, and media broadcasting.

Zero Latency: A Strategic and Safety Imperative. This upgrade enables true real-time connectivity, eliminating delays in data transmission.

1. **Strategy:** PUCK enables instant race strategy changes using live data—critical for timing overtakes and defensive moves.
2. **Safety:** Real-time telemetry ensures engineers and rescue teams have immediate access to vital diagnostics and positioning, enhancing safety and response.
3. **Fairness:** Instant data access allows race officials to make accurate, timely decisions, minimizing errors and ensuring fair outcomes.

Track-Tested Tech for Rally:
NXT Gen Cup innovations boost rally performance with reliable connectivity, better control, and safer communication in extreme conditions.

ENGINEERING A REAL-TIME PERFORMANCE ECOSYSTEM

The New Benchmark: Sustainability Meets High-Performance Mobility

The NXT Gen Cup serves as a critical technological platform focused on sustainable, electric mobility and the development of future talent. This commitment mandates a robust technological framework, particularly concerning the management of electric vehicle (EV) safety and performance. The LRT NXT1 race car, built on the MINI Cooper SE platform, delivers significant dynamic stress—accelerating with instantaneous torque derived from its 30 kWh battery and utilizing a 60 hp push-to-pass boost capability.

This high-speed, high-stress profile ensures that the antenna solution is subjected to peak dynamic testing. The operational mandate of the racing series requires consistent, high-speed connectivity for every vehicle, not just during races but also throughout support operations. The success achieved by POYNTING over two seasons confirms the reliability of their systems in meeting this foundational requirement, ensuring that the critical data link is maintained continuously.

FREDRIK LESTRUP:
Founder and Series manager of NXT Gen Cup

Our collaboration with POYNTING has been a tremendous success in terms of connectivity as we have proven for the last two seasons that everything is always connected. Thanks to the excellent connectivity, our operation can remain location-independent and relies on remote connectivity even at tracks where most teams do not trust the local network availability.

We are using our POYNTING antennas for general internet connectivity in our hospitality area, but the key areas are with live telemetry of our e-safety platform that monitors every cell's temperature – covering all batteries in all cars – both when stationery and racing. Key personnel get instant mobile alerts if any threshold values are exceeded.

Our live telemetry also sends information about push-to-pass to the TV production so that our viewers can see live which drivers are preparing to make an attempt to pass. Video is the heaviest network load, which is sent both live from all cars to TV production during the race and made available in recorded video files to engineering and race control as the cars leave the track. My organisation has learned that all data is available at all times – something we were told would be impossible. Using POYNTING antennas is a huge part of having a full field of 21 cars always online and for everyone to trust the data.

POYNTING'S experience in the NXT Gen Cup electric racing series provides invaluable insights into delivering high-performance connectivity in demanding, fast-moving environments.

While rally racing presents extreme challenges—such as high-speed movement across rugged terrain, rapidly changing environmental conditions, and the critical need for uninterrupted real-time data transmission—these demands push connectivity solutions to their limits.

Our antenna systems, engineered to deliver stable, high-speed communication under the intense conditions of rally racing, ensure reliable data flow even in the most remote and unpredictable locations. In this high-performance motorsport, dependable connectivity is essential for vehicle telemetry, team coordination, live broadcasting, and safety systems.

The advantages for rally teams are clear: enhanced vehicle monitoring through real-time diagnostics, improved strategic decision-making via continuous data access, and increased safety through instant alerts and communication. What performs flawlessly in the dust and speed of rally stages sets the benchmark for connectivity in any extreme environment.

CHAMPIONSHIP-WINNING CONNECTIVITY

We're proud to celebrate Anders Hansson and the Revline Racing Team for their incredible victory at the European Time Attack Masters—taking the win in the Extreme Class with their custom-built PORSCHE 968 GT1, driven by ALX Danielsson.

This championship success was powered not only by engineering excellence but also by cutting-edge connectivity. Nathiko B.V. supported the team with its advanced #NathikoPlatform, delivering a robust 5G solution for live video streaming using Axis Communications cameras. The setup featured cellular routers, Bondix by SIMA bonding software, and a POYNTING's **PANL-401 Series** antenna.

At speeds reaching up to 260 km/h, stable and reliable connectivity is non-negotiable. POYNTING antennas ensured consistent data transmission throughout the race—keeping the team connected, informed, and in control.

INSIDE THE CAR, EVERY MILLISECOND COUNTS

Racing vehicles today are mobile data centres—streaming telemetry, video, and safety-critical information in real time. In high-speed environments, connectivity must be instant, stable, and resilient. Latency isn't just inconvenient—it can compromise performance and safety.

Deployments in real-world racing have shown that with the right antenna setup, teams gain full visibility into vehicle diagnostics, make live strategy adjustments, and transmit onboard footage without delay. This level of connectivity transforms how teams operate—and compete.

THE BIGGER THE BETTER

Larger POYNTING antennas will perform better than smaller antennas. Larger antennas will provide higher throughput, will be less subject to roaming and latency will be positively impacted as the overall connection, especially in lower quality signal areas, will be more stable, reliable and consistent.

This will allow your process to run smooth, require no attention & your workflow is improved and it support running AI processes and schemes.

PANL SERIES

Protect Your Investment And Install Your Antenna Inside Your Vehicle:

BUILT FOR SPEED & STABILITY

- Designed for high-performance 5G connectivity inside vehicles
- Ultra-wideband coverage from 410 to 6000 MHz for uninterrupted data flow
- Cross-polarised antenna elements for enhanced signal stability and throughput
- Low-profile, rugged design ideal for compact installations in dynamic environments
- Weather, dust, and vandal-resistant enclosure (IP65) for durability under extreme conditions
- Flexible, non-invasive mounting options (no drilling needed)

CONNECTIVITY FROM THE TOP DOWN

Mounting antennas on the roof of racing vehicles, team RVs, and support trucks ensures optimal signal reception in fast-moving, high-demand environments.

This elevated placement helps overcome interference, maintain stable 5G connectivity, and deliver real-time data for telemetry, video streaming, and team coordination.

Whether on the track or in transit, roof-mounted solutions provide the reliability and responsiveness needed to keep every part of the operation seamlessly connected—stable, reliable, and consistent.

PUCK SERIES

COMPACT AND MIGHTY

- Low profile & compact
- e-Mark certified for safety and compliance
- IP69K & IK10; Rugged, water-resistant design for durability
- Supports 5G/LTE, Wi-Fi, and GNSS
- 8 mounting options including long and short spigots for rooftop mounting for optimal signal reception
- Enables real-time telemetry, live video streaming, and critical data transmission

MIMO-3 SERIES

4G LTE 5G 450 MHz 3.5 GHz CBRS

ULTIMATE PERFORMANCE

- Unparalleled performance for the most demanding applications, particularly in low signal areas or remote areas.
- e-Mark certified for safe and compliance
- Multifunctional high gain 5G, LTE450, LTE, antenna with optional Wi-Fi & GNSS for precision tracking
- Exceptional coverage and signal strength
- IP69K & IK10: durable, and resistant to water and vandalism
- Roof-mounted design ensures optimal signal reception and minimal interference, enables real-time data transmission, live telemetry, and onboard connectivity for teams and media.

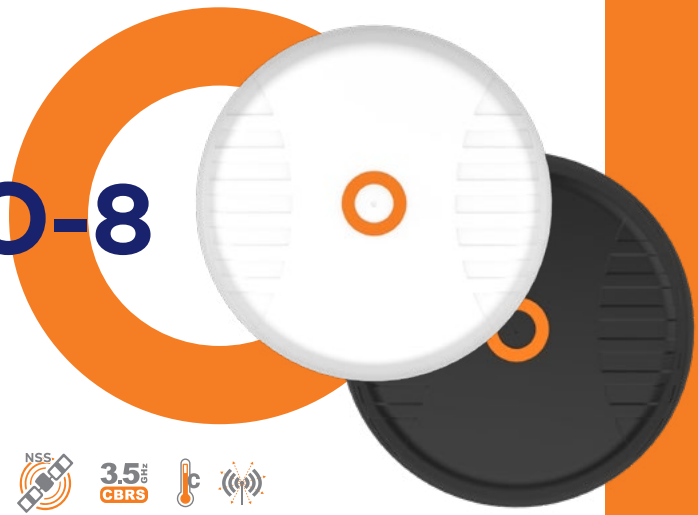
MIMO-4 SERIES

SEAMLESS CONNECTIVITY

- The optimal choice for balancing size & performance
- e-Mark certified for safe integration
- Seamlessly integrates into compact vehicle designs
- Supports multiple frequencies, including the latest 5G/LTE, WiFi-7 & GNSS
- IP69K & IK10: durable, and resistant to water and vandalism
- Enables real-time data transmission, live telemetry, and onboard connectivity for teams and media.

NEW

MIMO-8



ENDLESS CONNECTIVITY

- 9-in-1 or 13-in-1 high-performance multi-frequency antenna for advanced vehicle connectivity
- Ultra-wideband coverage from 410 – 7200 MHz for 5G cellular, Wi-Fi, and GNSS applications
- 8x8 5G (MIMO), 1x GNSS and optional 4x4 Wi-Fi (MIMO), for complete data ecosystem integration
- IP69K & IK10: durable, and resistant to water and vandalism
- Ideal for high-demand environments, dual radio applications with likely higher data volumes
- Multiple flexible mounting options
- **Expected Q1 2026. E-mark certification: process initiated**

SWIRL SERIES

BAND 71 · 5G · GPS · 3.5 GHz CBRS · WiFi DUALBAND · IP69K · E1

VIP CONNECTIVITY IN MOTION

High-Capacity Antennas For Rally Support Vehicles:

- e-Mark certified for safe integration
- 4x4 & 8x8 cross-polarised antenna configurations for single or dual 5G radio setups (Cross polarisation will provide you with 2 times the data throughput in comparison with single polarised antennas.
- Ideal for RVs and team trucks requiring processing of larger data volumes and serve multiple clients
- Supports live footage uploads, real-time telemetry monitoring, and remote diagnostics
- Exceptional performance in rural and urban service zones
- Ensures stable, reliable internet access for media teams, engineers, and logistics staff
- Roof-mounted for optimal signal reception and easy integration into mobile command setups

THE PADDOCK:
Where Connectivity Powers Control

Behind the scenes of every race, the paddock is the nerve centre of operations. It's where engineers, strategists, and support teams rely on uninterrupted connectivity to monitor vehicle performance, analyse live telemetry, and coordinate race-critical decisions. But with tens of thousands of spectators competing for bandwidth, maintaining stable, high-speed internet becomes a serious challenge.

Advanced antenna systems are essential here—not just to overcome congestion, but to ensure real-time responsiveness across all team functions.

From safety alerts and data uploads to media streaming and remote diagnostics, reliable paddock connectivity keeps the race running smoothly, securely, and smartly.

WAVEHUNTER™

DOMINATE DATA DEMAND

- Maritime-grade dome antenna adapted for land-based racing operations
- Features 24 directional antennas with four polarisations in a 360° layout for maximum signal capture. It also supports four dual-band Wi-Fi and two GNSS antennas for versatile, high-performance connectivity.
- No cable loss as the WaveHunter dome provide space for six 5G cellular routers
- Provides the cleanest signal with least noise and no interference for optimal transfer of data at any time anywhere and meets highest connectivity demands
- Connects to distant, less congested cell towers to avoid local network saturation
- Ideal for paddock setups, media zones, and operational command centres
- Delivers stable, high-speed internet for telemetry, video uploads, and team coordination

XPOL-24

4G LTE 5G IP65 3.5 GHz CBRS

PRECISION IN EVERY DIRECTION

- 4-in-1 wideband directional 4x4 MIMO 5Gcellular antennas based on the famous POYNTING XPOL-2 Series
- Operates from 617 to 4200 MHz for ultra-wideband cellular coverage
- Cross-polarised (4 polarisations) design enhances signal stability and throughput
- Flat panel antenna with attractive design with pole and wall mount options
- Weather, dust, and vandal-resistant (IP65) for rugged environments
- Flexible, non-invasive mounting options for seamless integration

WLAN-60/61

450 MHz

Wi Fi DUALBAND

5G

Wi Fi

3.5 GHz CBRS

HIGH-SPEED WI-FI FOR TEAM OPERATIONS

- Dual-band Wi-Fi antennas designed for high-density, high-demand environments
- Supports 2.4 GHz and 5 GHz bands for high-speed data transmission and mesh applications.
- A single directional or a 4x4 MIMO directional set up with 4 polarisations for extreme challenging signal areas for tailored coverage
- Weather-resistant IP65 and rugged enclosures
- Enables stable Wi-Fi for engineers, media crews, and support staff

OMNI-294/ 298/296

PADDOCK WIFI MADE POWERFUL

- Reliable Wi-Fi coverage across paddock zones and team areas
- Lower and Higher-gain Omni-Directional performance ensures consistent connectivity in all directions
- Single antennas in one housing (high gain), 2x2 MIMO and 4x4 MIMO Dual Polarised antennas to meet any requirement to support optimal distribution of Wi-Fi signals in the paddock, garages or guest areas
- Supports 2.4 GHz and 5 GHz bands for high-speed data transmission and mesh applications.
- Rugged, weather-resistant
- Ideal for connecting team RVs, trucks, hospitality zones, and media stations
- Easy, flexible installation & mounting

PUSHING THE
LIMITS OF CONNECTIVITY
FROM THE PIT TO THE PODIUM

GLOBAL PRESENCE. LOCAL SUPPORT.

Europe
sales-europe@poynting.tech

Americas
sales-us@poynting.tech

APAC, Middle East & Africa
sales-global@poynting.tech

SCAN FOR FULL INFORMATION

www.poynting.tech