

## Application Scope

Kymata provides an advanced solution for indoor and outdoor radio coverage in large logistical and industrial environments.

The Kymata antennas and couplers address signal issues effectively and economically, ensuring superior performance. The intuitive web interface and SNMP management offer comprehensive control over industrial wireless networks.

## MPNSM5G SmartMIMO 5G Coupler

The MPNSM5G is a bidirectional coupler for integrating 5G and Wi-Fi signals on a single Kymata antenna.

Using Kymata's patented SmartMIMO technology, it delivers efficient 2x2 MIMO coverage with superior performance.

Designed for 5G Mobile Private Networks (MPN), it provides optimized coverage and throughput in high-density environments like industrial and logistics sectors.

The MPNSM5G supports simultaneous 5G and Wi-Fi operation, enhancing signal stability and increasing throughput by over 80%, enabling scalable, heterogeneous networks combining public and private 5G with Wi-Fi.



## Key Features

- **5G MPN Optimized:** Designed specifically for private 5G networks, the MPNSM5G ensures high performance signal coupling for machine-to-machine (M2M) connectivity in industrial and business critical applications.
- **Increased Signal Stability:** The MPNSM5G enhances the stability of wireless signals, ensuring consistent connectivity in challenging environments.
- **Enhanced Throughput:** With SmartMIMO technology, the coupler provides a throughput increase of over 80%, optimizing 5G and Wi-Fi6 network performance.
- **Heterogeneous Network Support:** Supports the concurrent operation of both private 5G and Wi-Fi systems, enabling the creation of flexible, heterogeneous networks across different technologies.
- **SmartMIMO for Optimal Performance:** SmartMIMO technology ensures maximum performance for both 5G and Wi-Fi6 networks, providing superior coverage and capacity in demanding environments.
- **Ease of Maintenance:** Designed for easy maintenance in critical business settings, the MPNSM5G minimizes downtime and reduces operational disruptions.

## Benefits

- **Optimized 5G Private Network Performance**  
Maximizes spectrum efficiency and coverage for private 5G network deployments using SmartMIMO technology.
- **Seamless Integration**  
Easily integrates with Kymata antennas, ensuring straightforward deployment for both small and large-scale 5G and Wi-Fi6 networks.
- **Versatile Wireless Deployments**  
Supports 5G and Wi-Fi on a single antenna, enabling flexible and cost-effective network setups in industrial and commercial environments.

## Technical Specifications

*Bidirectional Indoor SmartMIMO 5G Coupler. Designed for use in conjunction with Kymata antennas for Mobile Private Network coverage in 5G technology.*

Chassis	Aluminum
Chassis Color	Matte White
Dimensions	148 x 114 x 37.5 mm
DIN Mounting	DIN Rail IEC/EN 60715
Wall Mounting Holes	4 Holes x $\varnothing$ 5mm
Power Supply	none/passive
Radio/Antenna Connectors	3 x N female
Operating Temperature	0 to +70°C
Operating Frequency	3.150~3.850 GHz
Max RF Input Power	+8 to +33 dBm
Insertion Loss Chain 0	3 dB $\pm$ 1 dB
Insertion Loss Chain 1	4.5 dB $\pm$ 1 dB
Maximum TX Power	42 dBm
Separation Chain 0 / Chain 1	25 dB $\pm$ 3 dB

