Application Scope

Kymata provides a groundbreaking solution for indoor and outdoor radio coverage in extensive logistical and industrial areas. Kymata antennas and amplifiers effectively and economically resolve signal issues, ensuring superior performance.
The intuitive management through a web interface and SNMP offers complete and immediate control of industrial wireless networks.

AMP5SM Amplifier

The AMP5SM amplifier is a cutting-edge solution designed to enhance MIMO Wi-Fi coverage in industrial and logistical environments. Leveraging SmartMIMO technology, it delivers 2x2 MIMO coverage through a single Kymata antenna, ensuring exceptional signal stability and throughput. Operating within the 5.1-5.9GHz frequency range and featuring bidirectional amplification, the AMP5SM provides seamless and efficient wireless performance. With integrated SNMP management and IP addressability, it offers comprehensive control over your Wi-Fi network via a dedicated web interface, enabling real-time monitoring and precise adjustments for optimal performance.

Key Features

- *Bidirectional WiFi Amplification (TX+RX)*
  Enhances both transmission and reception for superior signal strength.
- *SmartMIMO Technology*
  Provides 2x2 MIMO coverage with a single antenna, optimizing both performance and coverage.
- *Advanced Management*
  Features SNMP management and a dedicated web GUI for real-time monitoring and control.
- *Compatibility and Performance*
  Supports Wi-Fi 6 and 5G technologies, and is designed for use with Kymata antennas in MIMO 802.11b/g/n/ax networks.
- *Dual PoE Power Supply*
  Ensures flexibility and reliability across diverse industrial settings.

Benefits

- *Enhanced Coverage*
  Increases Wi-Fi coverage by approximately 50%, ensuring robust connectivity across large industrial areas.
- *Superior Signal Stability and Throughput*
  Achieves over 80% increase in throughput and greater signal stability through SmartMIMO technology.
- *Real-Time Monitoring*
  Provides real-time RF Key Performance Indicators (KPIs) both on-premises (NMS) and in the cloud (backend), ensuring optimal network performance.

Technology Made in Italy

Technical Specifications

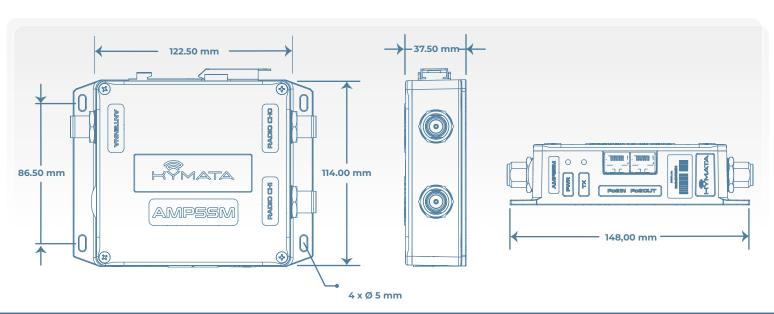|	
Chassis	Aluminum [Matte White]
Dimensions	148 x 114 x 37.5 mm
DIN Mounting	DIN Rail IEC/EN 60715 [4 Holes x Ø5mm]
Power Supply	Standard PoE 802.3af 2 x RJ45 [PoE, electrical bypass]
Radio/Antenna Connectors	3 x N female
Operating Temperature	0 to +70°C
Power Voltage	+37 to +57VDC [PoE]
Maximum Current Consumption	200mA @ 48VDC
Ethernet Port	RJ45 10/100BaseTX
Status LED	Green [On/Off]
Traffic LED	Blue [Traffic]
Operating Frequency	5.150~5.850 GHz
Max RF Input Power in TX	+8 to +20 dBm
TX Gain Chain 0	12 dB ± 1 dB
TX Gain Chain 1	11 dB ± 1 dB
Maximum TX Power	32 dBm
RX Gain Chain 0	11 dB ± 1 dB
RX Gain Chain 1	10 dB ± 1 dB
RX Noise Figure	3 dB
Decoupling Chain 0 / Chain 1	25 dB ± 3 dB
Management	SNMP v2.0 integrated web server GUI

CE   FC   RoHS COMPLIANT   4 Wi-Fi   5 Wi-Fi   6 Wi-Fi   Energy Saving*

Power LED

Tx LED

RJ45 PoE Input 802.3af

RJ45 PoE Output 802.3af

Serial Number

Dimensions (drawings):
122.50 mm
37.50 mm
86.50 mm
114.00 mm
148,00 mm
4 x Ø 5 mm