

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.

AMP2SM Amplifier

The AMP2SM amplifier, when paired with KYMATA antennas, sets a new standard in industrial Wi-Fi installations. Leveraging patented SmartMIMO technology, it delivers 2x2 MIMO coverage with a single KYMATA antenna, offering superior performance over conventional systems. Operating within the 2.3-2.6GHz frequency range and featuring bidirectional amplification, the AMP2SM enhances both transmission and reception. With integrated SNMP management and IP addressability, it enables precise control and real-time monitoring via a dedicated web interface, ensuring optimal network 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.

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	2.300~2.600 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	13 dB ± 1 dB
RX Gain Chain 1	12 dB ± 1 dB
RX Noise Figure	3 dB
Decoupling Chain 0 / Chain 1	27 dB ± 3 dB

