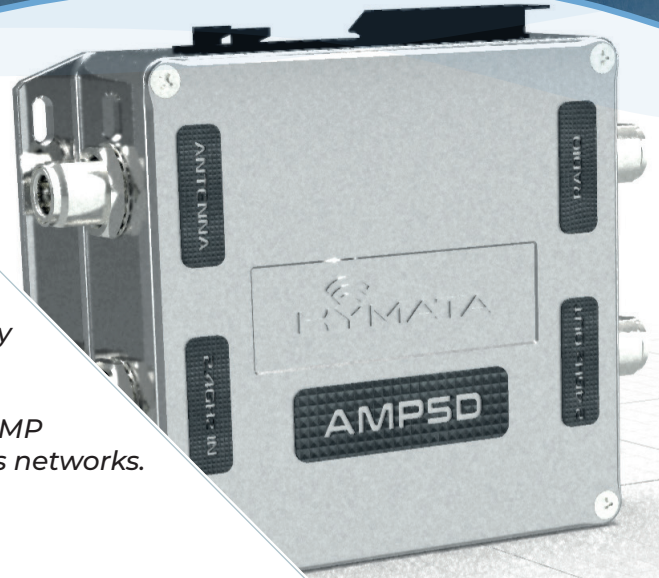## Application Scope

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.

AMP5D Amplifier

The AMP5D amplifier extends Wi-Fi coverage with Kymata antennas, featuring bidirectional amplification, dual diplexers for 2.4GHz and 5GHz signals, and IP management—all within a compact, high-performance design.

Key Features

- **Bidirectional WiFi Amplification (TX+RX)**
- **Integrated Diplexer**
  Separates 2.4GHz and 5GHz input and output signals for dual-band operation without external components.
- **Easy Management**
  Web GUI and SNMP for real-time monitoring and control.
- **Compact and High-Performance**
  Designed to operate with Kymata antennas, compliant with 802.11a/n/ac/ax standards.
- **Dual PoE Power Supply**
  Ensures flexibility and reliability.

Benefits

- **Enhanced Coverage**
  Increases WiFi coverage by approx. 50%.
- **Superior Performance**
  Separates 2.4GHz and 5GHz input and output signals for dual-band operation without external components.
- **Real-Time Monitoring**
  Provides real-time RF KPIs both on-premises (NMS) and in the cloud (backend).

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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	4 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	12 dB ± 1dB
RX Gain	11 dB ± 1dB
Maximum TX Power	30 dBm
RX Noise Figure	3 dB
Insertion Loss @2.4GHz IN	0.8 dB ± 0.2dB
Insertion Loss @2.4GHz OUT	0.8 dB ± 0.2dB
2.4/5GHz Isolation	>30 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

122.50 mm

37.50 mm

86.50 mm

114.00 mm

4 x Ø 5 mm

148,00 mm

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