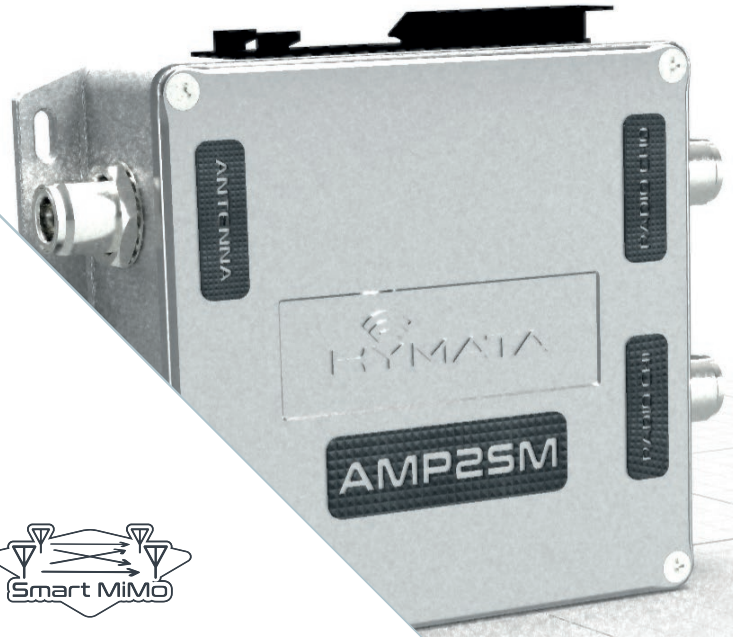## Scope and Application

KYMATA's DAS product line definitively and economically solves all WiFi coverage issues in the industrial and logistics sectors. The AMP2SM amplifiers with management, paired with KYMATA DAS antennas, enable reaching a new level of performance and control in industrial WiFi installations.

SmartMIMO Technology

The bidirectional AMP2SM amplifier incorporates the patented SmartMIMO technology, allowing the creation of MIMO 2x2 WiFi coverage using a single KYMATA DAS antenna, with performance superior to any conventional system.

SNMP Management

Unique in the market, the AMP2SM amplifier is IP/Ethernet addressable and programmable via a dedicated web GUI. It enables active supervision and monitoring of the WiFi system's radio status, sending key physical parameters via SNMP.

Key Advantages

▷ Bidirectional WiFi amplification (TX+RX)

▷ 50% increase in WiFi coverage

▷ Increased signal stability

▷ Over 80% throughput increase

▷ SNMP management over IP

▷ Real-time RF KPIs on-Premises (NMS) and on-Cloud (Backend)

▷ SmartMIMO technology compatible with WiFi6 and 5G

▷ Dual PoE power supply

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Technical Specifications

Bidirectional Indoor SmartMIMO 2.4GHz amplifier with integrated SNMP IP management. Designed for use in conjunction with Kymata DAS antennas for extending MIMO 802.11b/g/n/ax WiFi coverage.

Chassis Material	Alluminium
Mechanical Dimension	120 x 100 x 35 mm
Chassis Color	Natural Metal
Mounting	DIN Rail IEC/EN 60715
Wall Mount Holes	4 x φ5mm
Power Supply	Standard PoE 802.3af
Radio/Antenna Connectors	3 x N female
Power Connectors	2 x RJ45 (PoE, electrical bypass)
Operating Temperature	-30, +70°C
Input Voltages	from +37 to +57VDC (PoE)
Power Consumption	200mA@48VDC
Ethernet Port	RJ45 10/100BaseTX
Led (ON/OFF)	Green
Led (status)	Blue
Operating Frequency	2400~2500 MHz
TX RF Power In (on Radio port)	from +8 to +20 dBm
TX Gain CH0 (Chain 0)	12dB +/- 1dB
TX Gain CH1 (Chain 1)	11dB +/- 1dB
Maximum TX output power	32 dBm
RX Gain CH0 (Chain 0)	13 dB +/- 1dB
RX Gain CH1 (Chain 1)	12 dB +/- 1dB
RX Noise Figure	3 dB
CH0/CH1 Separation	27 dB +/- 3dB
Management	SNMP v2.0, Integrated Web Server GUI IP/Ethernet

Power LED

TX Traffic 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

148,00 mm

4 x Ø 5 mm

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