

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.



AMP2 Amplifier

The AMP2 amplifier, when used with Kymata antennas, is a bidirectional, active half-duplex device operating within the 2.4GHz frequency range. It enhances Wi-Fi coverage by boosting both transmission and reception signals by up to 15dB, delivering a powerful output of 30dBm for reliable performance across large and demanding environments. With integrated SNMP management and IP addressability, the AMP2 offers precise control and real-time monitoring via a web interface. It supports PoE power only, making it suitable for various industrial and outdoor applications, ensuring optimal connectivity and network performance.

Key Features

- **Bidirectional WiFi Amplification (TX+RX)**
 Enhances both transmission and reception to improve signal strength.
- **Powerful Output**
 Delivers 30dBm output, ensuring strong and consistent Wi-Fi coverage over large areas.
- **Advanced Management**
 Includes SNMP management and a dedicated web GUI for real-time monitoring and control.
- **Compatibility and Performance**
 Compliant with current regulations, the AMP2 works with Kymata ANT2/ANT5 antennas and supports Wi-Fi 802.11b/g/n/ax networks.
- **PoE Power Supply**
 Provides flexibility and reliability across various industrial settings.

Benefits

- **Enhanced Coverage**
 Increases Wi-Fi coverage significantly, ensuring robust connectivity across large industrial and logistical areas.
- **Superior Signal Stability and Throughput**
 Provides stable signal reception and transmission, ensuring high throughput across extensive areas.
- **Real-Time Monitoring**
 Allows for real-time RF Key Performance Indicators (KPIs) monitoring via SNMP and web GUI, 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
Fixing Drill Holes	4 Holes x \varnothing 5mm
Power Supply	Standard PoE 802.3af
Power Connector	2 x RJ45 [PoE, electrical bypass]
Radio/Antenna Connectors	2 x N female
Operating Temperature	0 to +70°C
Power Voltage	+37 to +57VDC [PoE]
Maximum Current Consumption	180mA @ 48VDC
Ethernet Port	RJ45 10/100BaseTX
Status LED	Green [On/Off]
Traffic LED	Blue [Traffic]
Operating Frequency	2.300~2.600 GHz
Standard IEEE	802.11b/g/n/ax
Max RF Input Power in TX	+6 to +18 dBm
TX Gain	15 dB \pm 1 dB
TX Average Power	30 dBm
RX Gain	17 dB \pm 1 dB
RX Noise Figure	2 dB
Management	SNMP v2.0 integrated web server GUI

