

1 Annex C – documentation

1.1 List of Pictures

Picture 1: Antenna specification (S131AH-2450S)	2
Picture 2: Antenna specification (MMSO2300)	3



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Revision: 1.01

Arnold & Richter Cine Technik GmbH & Co. Betriebs KG

RF module EMIP100

100409-AU01+E02
Annex C

Page 1 of 3

Series Part Numbers

Connector Code -XX-	Description	P / N
AM	SMA Plug	S131AM-2450S
AH	SMA Plug Reverse Polarity	S131AH-2450S
AT	SMA Plug Reverse Thread	S131AT-2450S

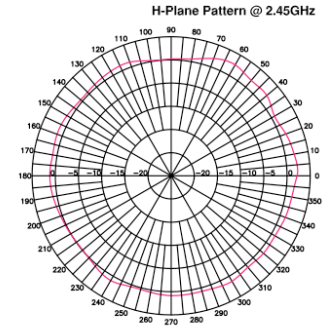
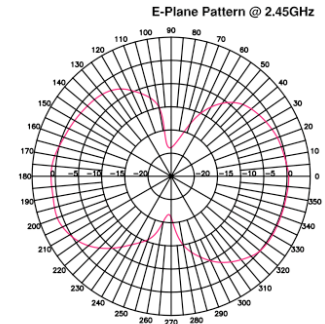
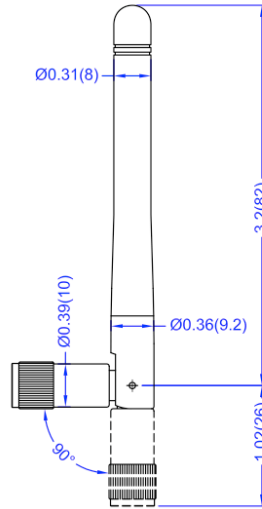
Electrical Properties:

Frequency Range: 2.4~2.5 GHz
 Impedance: 50Ω nominal
 VSWR: <2.0:1
 Gain: 2 dBi
 Radiation: Omni
 Polarization: Vertical
 Wave: Half Wave Dipole

Mechanical Properties:

Connector: SMA type
 Material: Polyurethane(Black)
 Whip: Polycarbonate(Black)
 Swivel Mechanism: Brass with black chrome plating
 Connector: Brass with black chrome plating
 Operation Temp.: -20°C to +65°C
 Storage Temp.: -30°C to +75°C

This is a RoHS compliant product.



Connector Interface



TITLE	2.4GHz Swivel Antenna -131 Model	Rev. Date	01/04/06	SHEET	1 of 1
UNIT	DWG. NO. S131XX-2450S				
in.(mm)					
SCALE	1:1				

NEARSON

Picture 1: Antenna specification (S131AH-2450S)



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Page 2 of 3

INFRASTRUCTURE ANTENNAS

Surface Mount Antennas



Miniature Stud Mount Omnidirectional Antenna for Wi-Fi Applications

The MMSO2300 miniature omnidirectional antenna covers frequencies from 2300-2500 MHz with a VSWR of less than 1.5:1. This ground-plane dependent antenna is designed to go virtually undetected while providing dependable Wi-Fi data throughput. It utilizes a bulkhead stud mount and hardware for secure permanent installations and includes a 3" RG-188A/U pigtail. 12 inch cable option also available. This antenna can be used both outdoors and indoors.

Features

- Miniature 1.3 inch housing. Provides minimum visibility for areas prone to theft or vandalism.
- Bulkhead stud mount secures the antenna for permanent installations, reducing the probability that the antenna will be stolen.
- Excellent performance with a VSWR of less than 1.5:1 for dependable wireless data coverage in a very low profile design.
- Designed to support permanent installations both outdoors and indoors.

Technical Data

Maximum Power: 10 watts
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR: < 1.5:1
Color: Black
Radome Housing: Delrin, UV resistant
Cable: 3" (76.2 mm) RG-188A/U flying lead (Model MMSO2300) 12" (304.8 mm) RG-188A/U coax (Model MMSO2300PT) Shorter cable options available with MMSO2300PT models.
Connector Options: For MMSO2300PT models add connector part number after the PT prefix. Example: MMSO2300PTMMCX indicates MMCX termination SMA plug (part #MSMA) MMCX (part #MMCX) Right Angle MMCX (part #RAMMCX)
Mounting Method: 1/4-28 stud mount, lock washer, jam nut and o-ring seal provided mounts to surfaces up to 0.25" thick

RF/Electrical Specifications

Model	Frequency Range	Gain
MMSO2300	2.3-2.5 GHz	Unity
MMSO2300PT	2.3-2.5 GHz	Unity

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range
MMSO2300	1.34 " H x 0.75" OD base with 0.63" flats (34.04 x 19.05 x 16.02 mm)	0.4 oz (0.015 kg)	-30° to +80 °C
MMSO2300PT	1.34 " H x 0.75" OD base with 0.63" flats (34.04 x 19.05 x 16.02 mm)	0.4 oz (0.015 kg)	-30° to +80 °C

Note: if your connector preference is not listed, please contact Customer Service for availability.

100 PCTEL, Inc. WEB: www.antenna.com

Picture 2: Antenna specification (MMSO2300)



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Page 3 of 3