

# 2.4 GHz Antennas

**HSA-2400TEB2, HSA-2400TFF, HSA-2400MS1, HSA-2400MS2 & HSA-2400PCB 2.4 GHz Antennas documentation**

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# Data Sheet

## 2.4 GHz Antennas (HSA-2400XXX)

### Wi-Fi antennas

Product	Frequency range	VSWR	Gain	Polarization type	Rated power	Input impedance
HSA-2400MS1	2400-2483 MHz	≤ 2.0	5 dBi	vertical	100 W	50 Ω
HSA-2400MS2	2400-2483 MHz	≤ 2.0	5 dBi	vertical	100 W	50 Ω
HSA-2400TEB2	2400-2483 MHz	≤ 2.0	2 dBi	vertical	50 W	50 Ω
HSA-2400TFF	2400-2483 MHz	≤ 2.0	2 dBi	vertical	50 W	50 Ω
HSA-2400PCB	2400-2483 MHz	≤ 2.0	5 dBi	vertical	50 W	50 Ω

Product	Connector	Antenna length	Radiator	Working temperatures	Weight
HSA-2400MS1	SMA male	Ø28x147 mm	Cuprum	-40°C~+60°C	50 g
HSA-2400MS2	SMA male	Ø28x147 mm	Cuprum	-40°C~+60°C	50 g
HSA-2400TEB2	SMA male	Ø7.8x48 mm	Cuprum	-40°C~+60°C	6 g
HSA-2400TFF	SMA male	Ø8x108 mm	Cuprum	-40°C~+60°C	12 g
HSA-2400PCB	IPEX	Ø7x47 mm	Cuprum	-40°C~+60°C	2 g

# HSA-2400MS1

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**Electrical specifications:**

- Frequency range: 2400-2483 MHz
- VSWR:  $\leq 2.0$
- Gain: 5 dBi
- Polarization type: vertical
- Rated power: 100 W
- Input impedance: 50  $\Omega$

**Mechanical specifications:**

- Connector: SMA male
- Antenna length:  $\varnothing 28 \times 147$  mm
- Radiator: Cuprum
- Working temperatures:  $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Humidity: 5%-95% RH
- Weight: 50 g

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HSA-2400MS2

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**Electrical specifications:**

- Frequency range: 2400-2483 MHz
- VSWR:  $\leq 2.0$
- Gain: 5 dBi
- Polarization type: vertical
- Rated power: 100 W
- Input impedance: 50  $\Omega$

**Mechanical specifications:**

- Connector: SMA male
- Antenna length:  $\varnothing 28 \times 147$  mm
- Radiator: Cuprum
- Working temperatures:  $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Humidity: 5%-95% RH
- Weight: 50 g

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# HSA-2400PCB

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## Electrical specifications:

- Frequency range: 2400-2483 MHz
- VSWR:  $\leq 2.0$
- Gain: 5 dBi
- Polarization type: vertical
- Rated power: 50 W
- Input impedance: 50  $\Omega$

## Mechanical specifications:

- Radome materials: PCB
- Connector: IPEX
- Antenna length:  $\varnothing 7 \times 47$  mm
- Radiator: Cuprum
- Working temperatures:  $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Weight: 2 g

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HSA-2400TEB2

Image (4).webp or type unknown

**Electrical specifications:**

- Frequency range: 2400-2483 MHz
- VSWR:  $\leq 2.0$
- Gain: 2 dBi
- Polarization type: vertical
- Rated power: 50 W
- Input impedance: 50  $\Omega$

**Mechanical specifications:**

- Radome materials: plastic
- Connector: SMA male
- Antenna length:  $\varnothing 7.8 \times 48$  mm
- Radiator: Cuprum
- Working temperatures:  $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Humidity: 5%-95% RH
- Weight: 6 g



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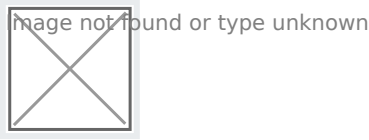
HSA-2400TFF

<div data-bbox="113 107 357 147" data-label="Image"></div>	<p><b>Electrical specifications:</b></p> <ul style="list-style-type: none"><li>• Frequency range: 2400-2483 MHz</li><li>• VSWR: <math>\leq 2.0</math></li><li>• Gain: 2 dBi</li><li>• Polarization type: vertical</li><li>• Rated power: 50 W</li><li>• Input impedance: 50 <math>\Omega</math></li></ul> <p><b>Mechanical specifications:</b></p> <ul style="list-style-type: none"><li>• Radome materials: plastic</li><li>• Connector: SMA male</li><li>• Antenna length: <math>\varnothing 8 \times 108.5</math> mm</li><li>• Radiator: Cuprum</li><li>• Working temperatures: <math>-40^{\circ}\text{C} \sim +60^{\circ}\text{C}</math></li><li>• Humidity: 5%-95% RH</li><li>• Weight: 12 g</li></ul>
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Additional notes

Related information and links		
<a href="#">Ordering information</a>	<a href="#">Accessories</a>	<a href="#">Similar products</a>

# Products family sample photo



<https://redisage.com>

**DISCLAMER NOTES**  
ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

## Datasheet-ID:

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