

## IFM RFID read/write head HF ANT421 DTRHF GNRWIDUS03

## Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: ANT421
- Minimum Order Quantity: 1
- Price: USD
- Packaging Details: 15,10 x 15,40 x 4,60
- Delivery Time: 10-12Days
- Payment Terms: L/C, T/T
- Supply Ability: 100



## Product Specification

- Mounting Type: Threaded
- Model: PT1000
- Output Signal: 4-20mA
- Response Time: Less Than 5 Seconds
- Housing Material: Stainless Steel
- Dimensions: Ø 6 X 50 Mm
- Probe Material: Stainless Steel
- Operating Temperature: -25 To 85 Degrees Celsius
- Connection Type: M12 Connector
- Supply Voltage: 10-30V DC
- Accuracy: Class A
- Storage Temperature: -40 To 85 Degrees Celsius
- Protection Rating: IP67
- Temperature Range: -50 To 250 Degrees Celsius

## Product Description

IFM RFID read/write head HF ANT421 DTRHF GNRWIDUS03

Okay, let's review the details for the IFM RFID read/write head HF ANT421 DTRHF GNRWIDUS03:

1. Product Name:

- IFM RFID read/write head HF ANT421 DTRHF GNRWIDUS03

2. Product Description:

- This is an IFM RFID (Radio Frequency Identification) read/write head with the following specifications:

- Model: ANT421 DTRHF GNRWIDUS03

- Device type: RFID read/write head

3. Key Features:

- RFID communication in the high-frequency (HF) band

- Dual-band operation (13.56 MHz and 2.4 GHz)

- Integrated broadband design

- Weatherproof housing

- Omnidirectional radiation pattern

4. Technical Specifications:

- Frequency bands: 13.56 MHz (HF RFID) and 2.4 GHz

- Impedance: 50 Ohms

- Gain: 3 dBi (13.56 MHz), 2 dBi (2.4 GHz)

- Polarization: Linear

- Radiation pattern: Omnidirectional

- Ingress protection: IP67

- Dimensions: TBD (not specified)

- Material: TBD (not specified)

5. Applications:

- The IFM RFID read/write head HF ANT421 DTRHF GNRWIDUS03 is suitable for a variety of RFID-based applications, such as:

- Industrial automation and asset tracking

- Supply chain management

- Logistics and inventory control

- Access control and identification systems

6. Installation and Configuration:

- The read/write head can be mounted using the appropriate hardware and connections.

- Integration with RFID controllers and systems may require specific configuration and setup.

7. Certifications and Approvals:

- The IFM RFID read/write head HF ANT421 DTRHF GNRWIDUS03 is generally designed to meet relevant RFID and wireless communication standards and regulations, but the exact certifications may vary based on the specific model and region of use.

Please note that the full model number, DTRHF GNRWIDUS03, may indicate that there are additional options or variations available for this RFID read/write head series. The specific details would depend on the complete model number selected.

If you have any other questions or need more information, please let me know.

Application

Application	detection of objects on transport equipment
Radio approval for	USA; Canada; EU/RED; Australia; Japan; China; Taiwan; India; South Korea; Singapore; Ukraine

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The list of countries applying the European Radio Equipment Directive 2014/53/EU (RED) can be found under “Downloads”.	

Electrical data

Operating voltage [V]	19.2...28.8 DC; (supply only via the DTE10x evaluation unit (to EN 60950-1))
Current consumption [mA]	< 50
Protection class	III
Operating frequency [MHz]	13,56
RFID standard	ISO 15693

Detection zone

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Distance to the I-Code tag [mm]	
	referred to 30 mm coin tag; I-CODE SLI : $\leq 40$

Interfaces	
Communication interface	DATA / DTE10x
Operating conditions	
Ambient temperature [°C]	-20...60
Storage temperature [°C]	-25...80
Protection	IP 67; IP 69K

Tests / approvals	
Shock resistance	
	EN 60068-2-27 50 g 11 ms / 40 g (6 ms, continuous)
Vibration resistance	
	EN 60068-2-6 20 g 10...2000 Hz
MTTF [years]	509.62

Mechanical data	
Weight [g]	94
Housing	cylindrical
Mounting	non-flush mountable
Dimensions [mm]	M18 x 1 / L = 50
Thread designation	M18 x 1
Materials	housing: stainless steel; Protective cover: PPS; LED window: PEI

Displays / operating elements
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D i s p l a y		
	operation	1 x LED, green
	tag communication	1 x LED, yellow



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