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27012045 Vehicle-Mounted 2.4 GHz & 5 GHz Dual-Polarized Directional Antenna (H75 V65 G5.5 & H80 V40 G6)

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29.1 27012045 Technical Specifications

Appearance and Structure

Figure 29-1 Appearance of the 27012045 Vehicle-Mounted 2.4 GHz & 5 GHz Dual-Polarized Directional Antenna (H75 V65 G5.5 & H80 V40 G6)



Technical Specifications

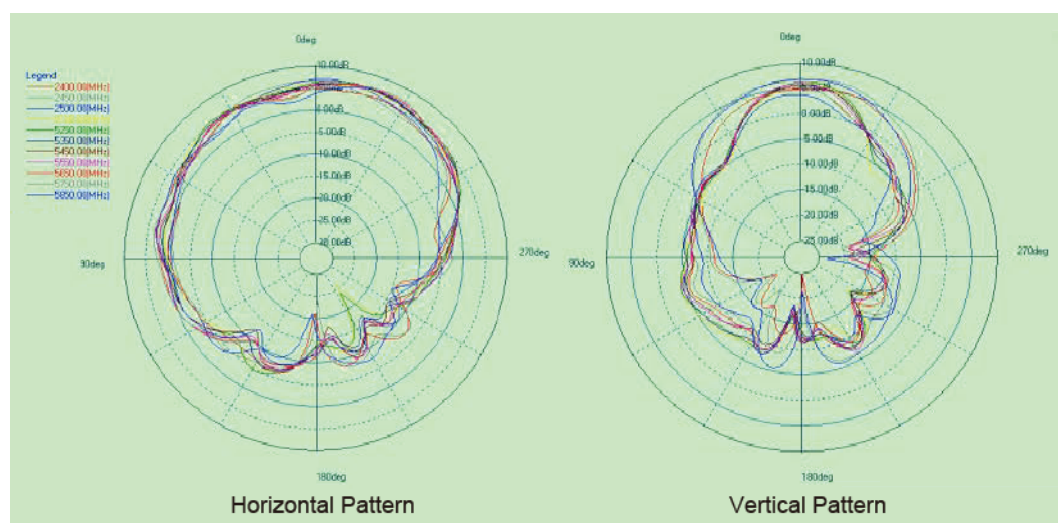
Table 29-1 Technical specifications of the 27012045 Vehicle-Mounted 2.4 GHz & 5 GHz Dual-Polarized Directional Antenna (H75 V65 G5.5 & H80 V40 G6)

Item	Details
Part Number	27012045
Model	ANTDG0606D3NR
Description	Directional Antenna, 2400~2500&5150~5850MHz,5.5&6dBi, 75deg/65deg&80deg/40deg,QMA/ Male,3port,without mounting parts,used in carriage
Frequency [MHz]	2.4G: 2400 to 2500 5G: 5150 to 5850
Antenna gain [dBi]	2.4G: 5.5 5G: 6
Coverage distance [m(ft.)]	2.4G: 80 5G: 70
Horizontal beamwidth [degrees]	2.4G:75 5G:80
Vertical beamwidth [degrees]	2.4G:65 5G:40
Standing wave ratio (SWR)	≤ 2
Polarization	Horizontal,Vertical,Cross polarization
Antenna connector	QMA-male x 3
Antenna dimensions [mm(in.)]	H x W x D: 35 x 140 x 100
Weight without packaging [kg(lb)]	0.26 kg(lb)
Installation type	Wall
Grounding requirements	Same as the AP

Item	Details
Antenna note	The gains and lobe widths in this document are typical values. The actual values are within a range. For specifications, see the corresponding data sheets. There may be differences in the standards of different countries, so the mapping between antennas and APs shall comply with local standards. For details, refer to device access authentication information. The coverage distance is subject to the following constraints: - The default AP transmit power is 15 dBm. - The default STA type is mobile phone, and no obstacle exists. - 2.4 GHz: The uplink and downlink RSSIs are greater than or equal to -70 dBm. - 5 GHz: The uplink and downlink RSSIs are greater than or equal to -75 dBm. For any questions about the parameters above, contact Huawei technical support.

Antenna's Radiation Pattern

Figure 29-2 Antenna Pattern1 of the 27012045 Vehicle-Mounted 2.4 GHz & 5 GHz Dual-Polarized Directional Antenna (H75 V65 G5.5 & H80 V40 G6)



29.2 27012045 Antenna Installation

The 27012045 antenna is a vehicle-mounted directional antenna and applicable to wireless coverage on vehicles.

29.2.1 Accessories and Tools

The following accessories and tools are required for installing the 27012045 antenna.

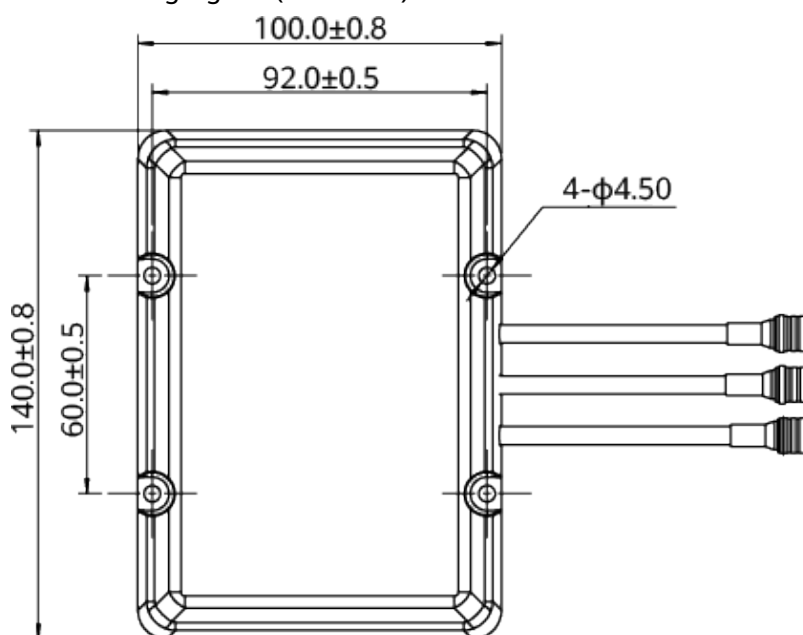
- One screwdriver

29.2.2 Wall Mounting

The 27012045 antenna can be mounted on a wall in a vehicle.

NOTE

- Determine the antenna mounting method according to onsite situations.
 - Select the proper outlet direction for the feeder, preventing small-angle bending of the feeder.
1. Select a suitable mounting position on the inner wall of a vehicle based on the positions and dimensions of mounting holes of the antenna, as shown in the following figure (unit: mm).

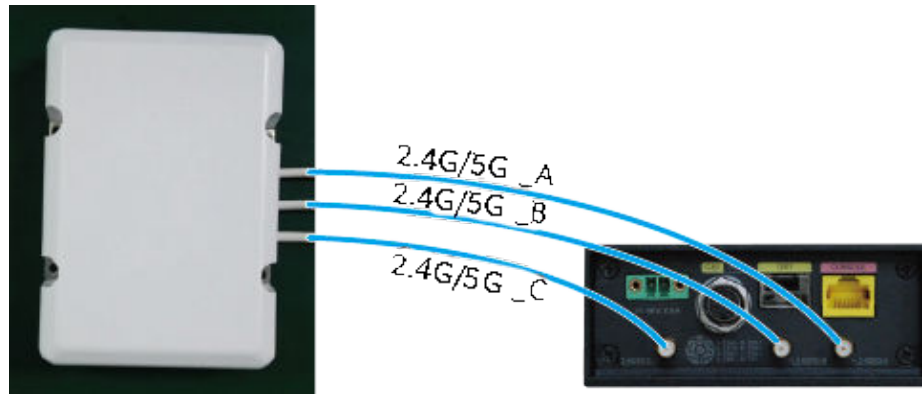


2. Fix the antenna on the inner wall of the vehicle using four screws.

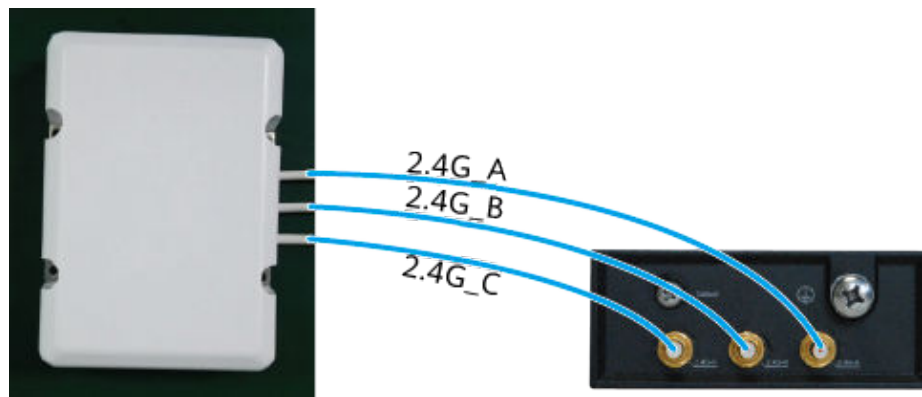
29.2.3 Connecting RF Cables

RF Cable Connections

Connect three feeder ports A, B, and C of the antenna to radio interfaces A, B, and C of the corresponding frequency bands on the AP.



If the AP9132DN is used to transmit only 2.4 GHz or 5 GHz signals on a radio interface, connect the 2.4 GHz antenna following the instructions in the figure below.



RF Cable Deployment Requirements

- Use a short RF cable to connect the antenna to an AP.
- It is recommended that you connect a 50 ohm RF load to an idle RF port.
- Bend radius requirements: RG-8U RF cable: > 150 mm; 1/2" RF cable: > 50 mm; 7/8" RF cable: > 250 mm. One inch (1") equals 25.4 mm.
- The grounding requirements of antennas are the same as those of APs.