

Antenna Specification

Model: M253

Vtech Telecommunications Ltd.

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1 M253 DECT Base Antenna0 Description

This wire monopole antenna is optimized for use in the M253 BS DECT unit. It is directly soldered to the DECT RF output on the main PCB.

Model Number	Description
M253 BS Ant0	DECT 1.9 GHz Monopole

Table 1: DECT Antenna Model Information

2 DECT Specifications

Parameter	Value
Operating Frequency Range	1880 to 1930 MHz
Maximum Gain	0 dBi
Operating Bandwidth	50 MHz
Nominal Impedance	~50 ohms
Manufacturer	Vtech Telecommunications Ltd.
Manufacturer Address	23/F, Tai Ping Industrial Centre, Blk1, 57 Ting Kok Road, Tai Po, Hong Kong
Model Number	ANT-M253-DECT-Wire

Table 2: DECT BS Antenna0 Technical Specifications

2.1 DECT BS Antenna0 Frequency and Orientation with Maximum Antenna Gain

Test Frequency: 1902.528 MHz

	Vertical	Horizontal
Antenna Gain (dBi)	-1.56	0

Table 3: Antenna Gain at 1902.528 MHz

3 DECT BS Antenna0 Pattern

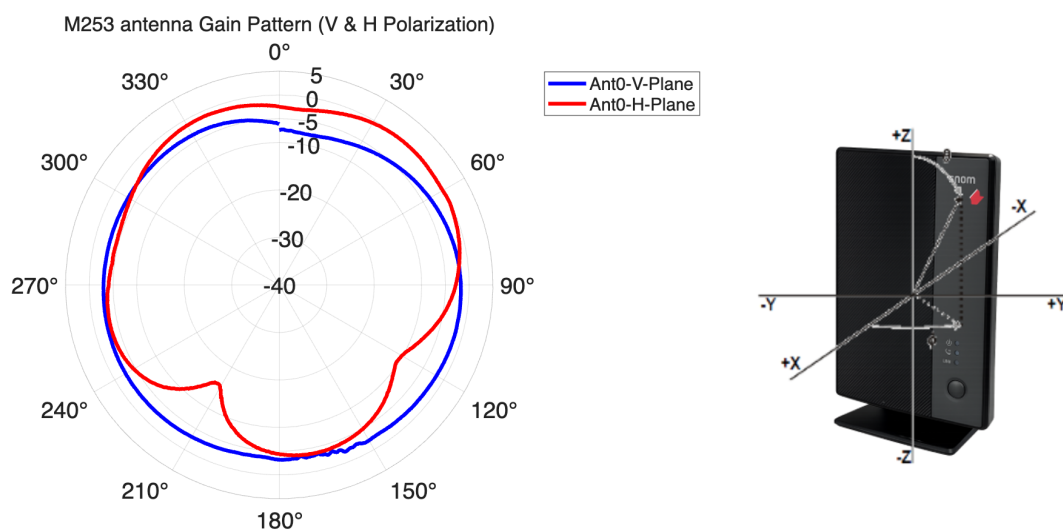
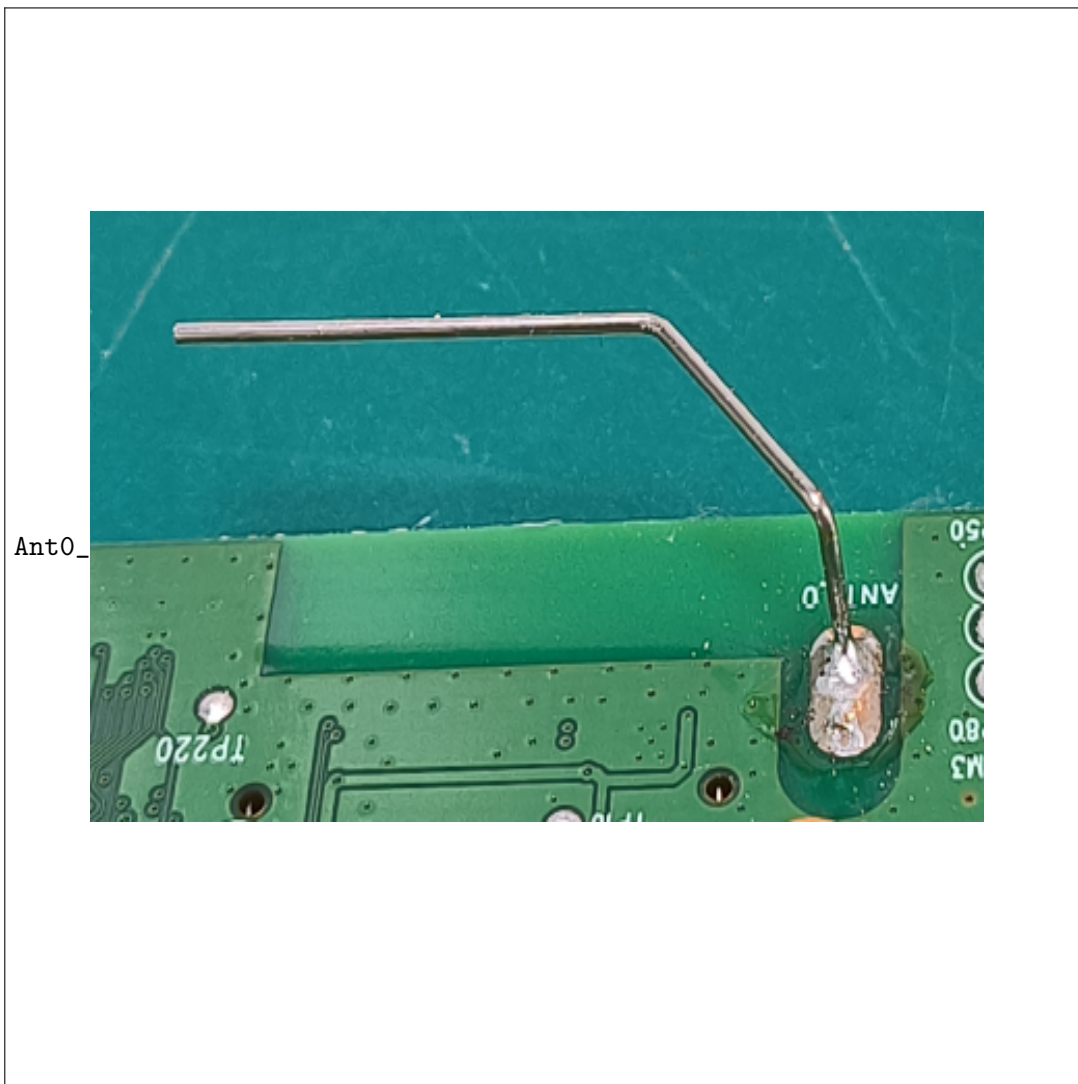


Figure 1: DECT BS Antenna0 Radiation Pattern

4M253DECTBSAntenna0



5 M253 DECT Base Antenna1 Description

This is a PCB printed dipole antenna optimized for 1.9 GHz operation. It is connected to the DECT BS RF output port on the mainboard through an RF cable by soldering.

Model Number	Description
M253 BS Ant1	DECT 1.9 GHz PCB Printed Dipole

Table 4: DECT BS Antenna1 Model Information

6 DECT BS Antenna1 Specifications

Parameter	Value
Operating Frequency Range	1880 to 1930 MHz
Maximum Gain	0 dBi
Operating Bandwidth	50 MHz
Nominal Impedance	~50 ohms
Manufacturer	Vtech Telecommunications Ltd.
Manufacturer Address	23/F, Tai Ping Industrial Centre, Blk1, 57 Ting Kok Road, Tai Po, Hong Kong
Model Number	ANT-M253-DECT-PCB-Dipole

Table 5: DECT BS Antenna1 Technical Specifications

6.1 DECT BS Antenna1 Frequency and Orientation with Maximum Antenna Gain

Test Frequency: 1902.528 MHz

	Vertical	Horizontal
Antenna Gain (dBi)	0	-13.86

Table 6: DECT BS Antenna1 Gain at 1902.528 MHz

7 DECT BS Antenna1 Pattern

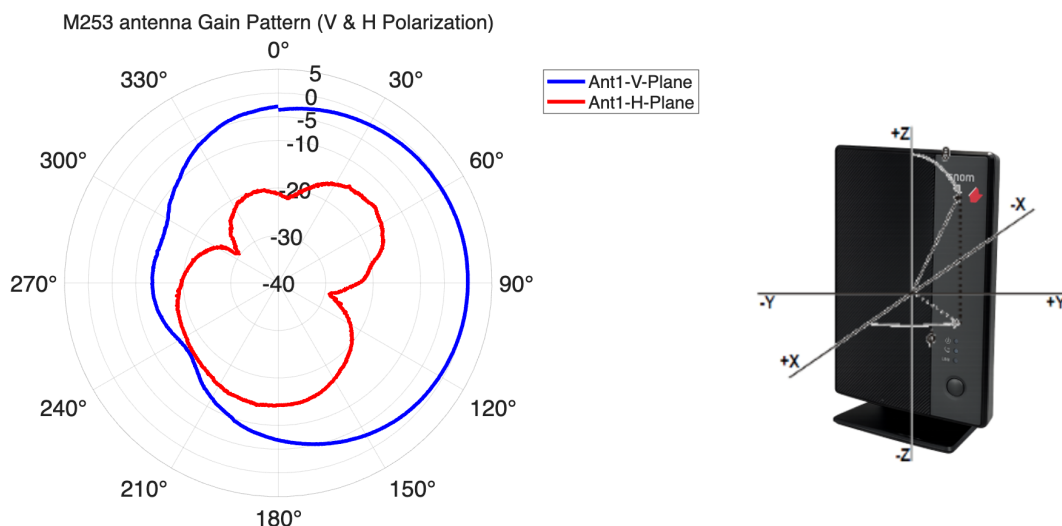


Figure 3: DECT BS Antenna1 Radiation Pattern

8M253DECTBSAntenna1



Figure 4: DECT BS Antenna1 Dimension

9 M253 DECT HS Antenna Description

This wire monopole antenna is optimized for use in the M253 HS DECT unit. It is directly soldered to the DECT HS RF output on the main PCB.

Model Number	Description
M253 DECT HS Antenna	DECT 1.9 GHz Monopole

Table 7: DECT HS Antenna Model Information

10 DECT HS Antenna Specifications

Parameter	Value
Operating Frequency Range	1880 to 1930 MHz
Maximum Gain	0 dBi
Operating Bandwidth	50 MHz
Nominal Impedance	~50 ohms
Manufacturer	Vtech Telecommunications Ltd.
Manufacturer Address	23/F, Tai Ping Industrial Centre, Blk1, 57 Ting Kok Road, Tai Po, Hong Kong
Model Number	ANT-M253-DECT-HS-Wire

Table 8: DECT HS Antenna Technical Specifications

10.1 DECT HS Antenna Frequency and Orientation with Maximum Antenna Gain

Test Frequency: 1902.528 MHz

	Vertical	Horizontal
Antenna Gain (dBi)	0	-6.4

Table 9: DECT HS Antenna Gain

11 DECT HS Antenna Pattern

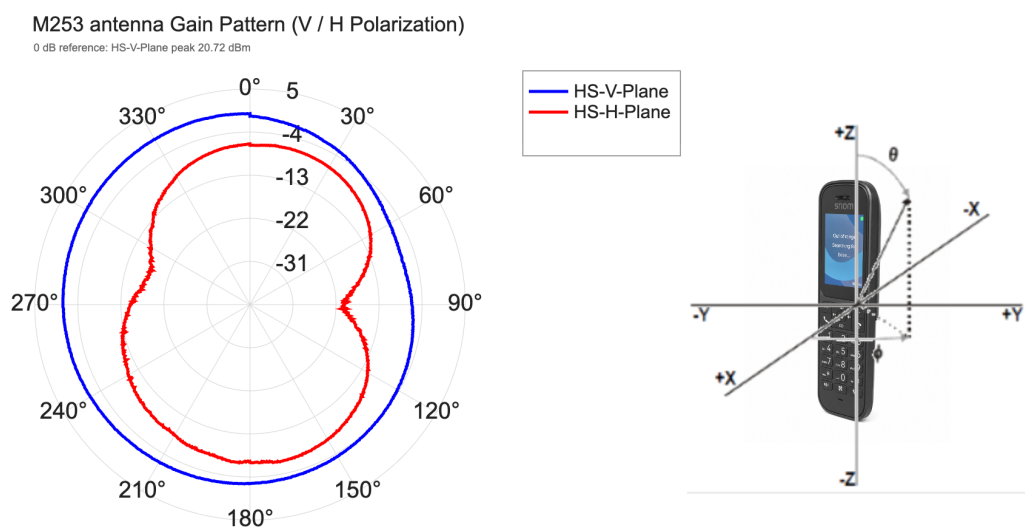


Figure 5: DECT HS Antenna Radiation Pattern

12 DECT HS Antenna Dimensions

All dimensions are in millimeters (mm).

