

# Antenna for S-Band Digital Audio Broadcasting System (2.3GHz)

**yokowo**



Antenna for XM



Antenna for Sirius



Antenna for XM / Sirius  
(Dual Type)

## Applications

### XM Satellite Radio(Single Module)

- The antenna for N.American Digital Audio Broadcasting, the XM Satellite Radio.

## Features

- Receiving circular polarization from the 2 Stationary Satellites, and receiving linear polarization at blind zone through the terrestrial repeaters.  
The circular / linear polarization compatible receiving antenna.
- The core technology for hybrid antenna. (AM/FM/GPS/Cellular/XM, etc.)

## Applications

### Serius Satellite Radio(Single Module)

- Satellite digital broadcasting antenna for North America. (Serius Satellite Radio)

## Features

- Serius Satellite Radio.
- This antenna is common receivable antenna to circular and straight polarization.  
Normally if can receive the wave from 0 round satellite, and in case of unacceptable zone it can receive straight polarization from terrestrial facilities.
- The core technology for hybrid antenna. (AM/FM/GPS/Cellular/Sirius, etc.)

## Specifications

	XM Satellite Radio		Sirius Satellite Radio	
	Satellite	Terrestrial	Satellite	Terrestrial
Frequency	2332.5~2345MHz		2320~2332.5MHz	
Antenna Passive Gain	2dBic Min. ( $20 \leq \theta \leq 60\text{deg}$ )	-2dBil Min. (0deg)	0dBic Min. ( $25 \leq \theta < 50\text{deg}$ ) 4.5dBic Min. ( $50 \leq \theta \leq 70\text{deg}$ ) 2dBic Min. ( $70 < \theta \leq 90\text{deg}$ )	-4±1dBil ( $0 \leq \theta \leq 10\text{deg}$ ) — —
LNA Noise Figure	1.0dB Max. *		0.9dB Max.	
LNA Gain	21±2dB *		36±2.5dB	
VSWR	1.5 Max. *		2.0 Max.	
Impedance	50Ω *		50Ω	

\* Measured at the cable end