

Antennas Specifications and Patterns for WBSn-2450

The chapter describes antenna specifications and patterns for the antennas supplied with the WBSn-2450-S-xx, WBSn-2450-O-xx, WBSn-2450-SO-xx, WBSn-2450-OS-xx.

1. WBSn-2450 Dual Band Sector Antenna

Alvarion P/N:TOP00048-AA



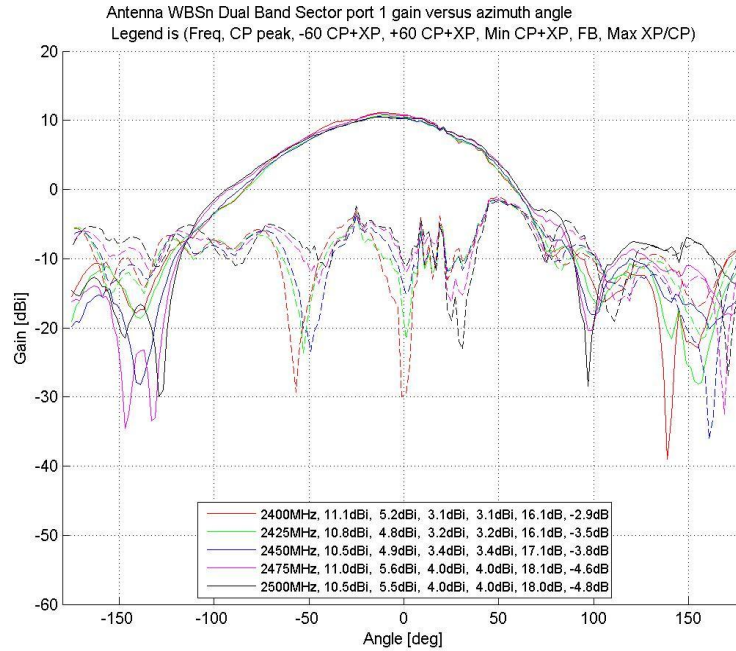
This antenna used in WBSn-2450-S-xx.

1.1. WBSn-2450 Dual Band Sector Antenna Specification

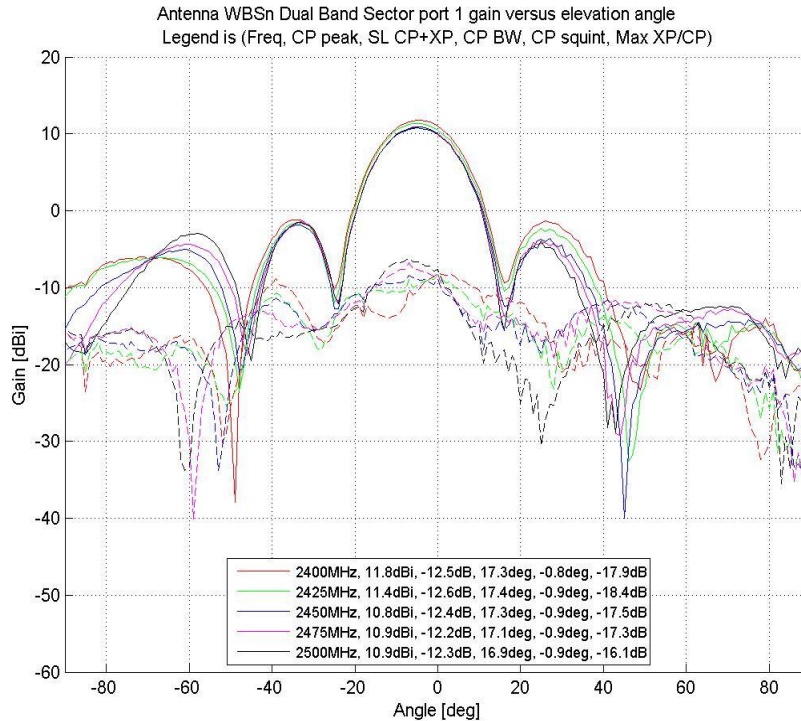
Regulatory Compliance	RoHS , CE 0682
Alvarion P/N	TOP00048-AA
1. ELECTRICAL	
Number of antennas per array	3: Slant 45° left, Slant 45° right, Vertical
Peak Gain – 2.4-2.4835 GHz	11dBi typ 10dBi min
4.9-5.9 GHz	12dBi typ 7dBi min
VSWR	R.L. -10 dB (max)
Isolation between ports	20dB (min)
Input Impedance	50 Ohms
Input Power	6 W (max)
Lightning Protection	DC grounded
2. MECHANICAL	
Dimensions (L x W x D)	302mm x 302mm x 40mm to fit within the WBSn product line sector radome.
Weight	0.6kg (max)
RF Connector	3 x MCX female connectors
3. ENVIRONMENTAL	
Operating Temperature	-40°C to +90°C
Vibration	IEC 60721-3-4 Class 4M5
Flammability	UL 94 class V0
Humidity	ETSI EN300-2-4 T4.1E (95%)
Solar Radiation	ASTM G53

1.2. WBSn-2450 Dual Band Sector Antenna Patterns

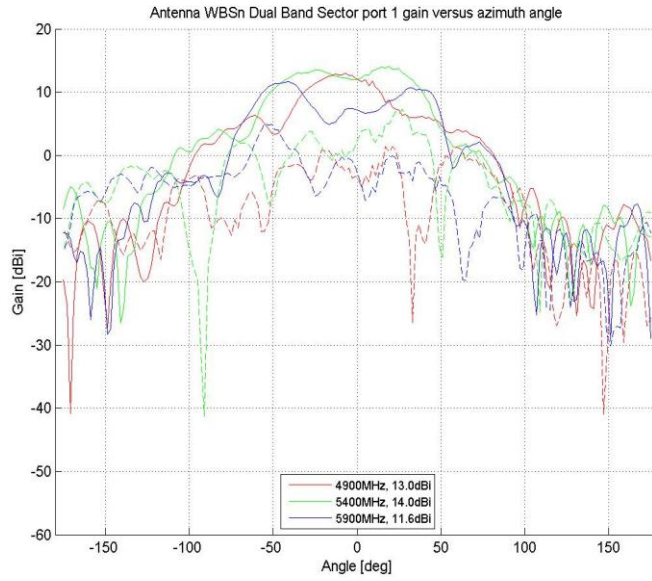
Azimuth pattern 2.4-2.5GHz



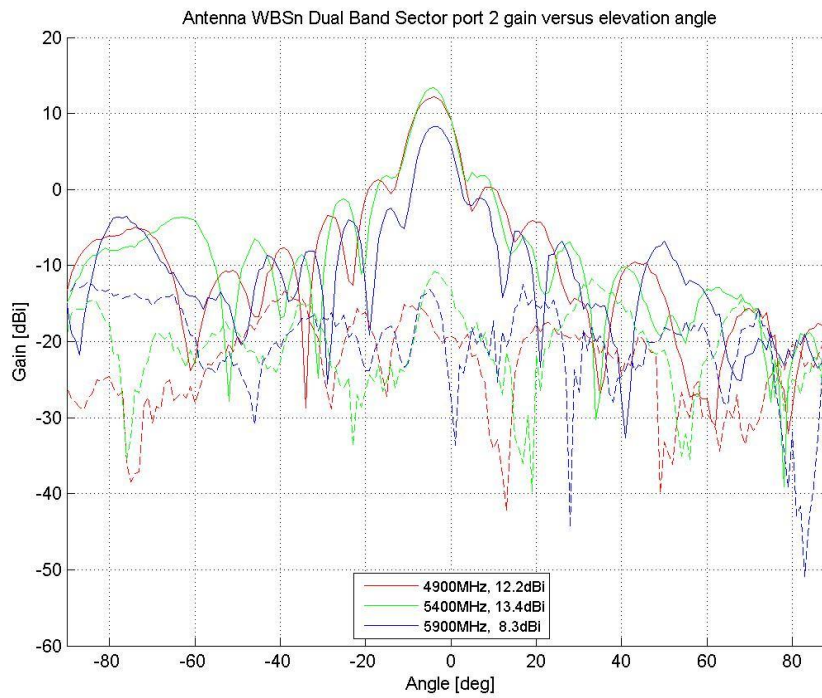
Elevation pattern 2.4-2.5GHz



Azimuth pattern 4.9-5.9GHz



Elevation pattern 4.9-5.9GHz



2. WBSn-2400 Sector Antenna

Alvarion P/N:TOP00039-AA



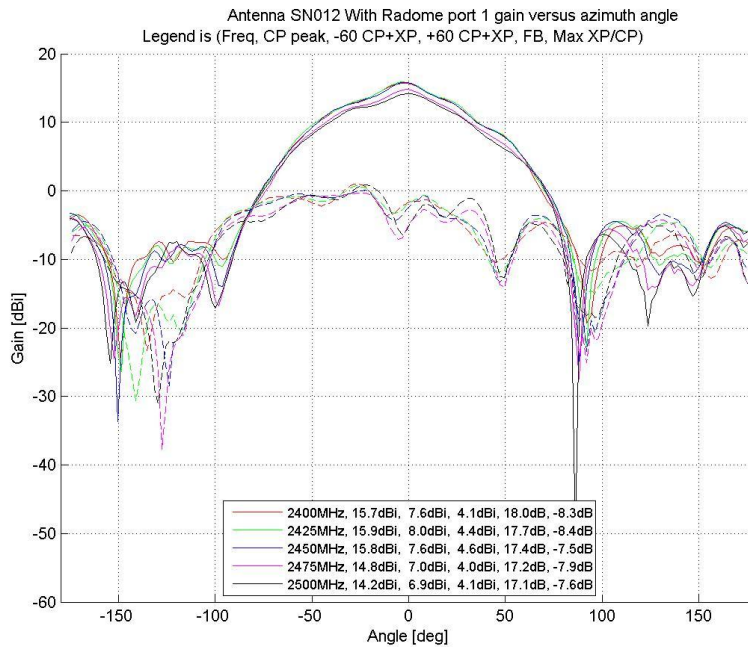
This antenna used in WBSn-2450-SO-xx.

2.1. WBSn-2400 Sector Antenna Specification

Regulatory Compliance	RoHS , CE 0682
Alvarion P/N	TOP00039-AA
1. ELECTRICAL	
Number of antennas per array	3: Slant 45° left, Slant 45° right, Vertical
Peak Gain – 2.4-2.4835 GHz	15dBi typ 11dBi min
4.8-5.0 GHz	-8dBi min
VSWR	R.L. -10 dB (max)
Isolation between ports	20dB (min)
Input Impedance	50 Ohms
Input Power	6 W (max)
Lightning Protection	DC grounded
2. MECHANICAL	
Dimensions (L x W x D)	302mm x 302mm x 40mm to fit within the WBSn product line sector radome.
Weight	0.6kg (max)
RF Connector	3 x MCX female connectors
3. ENVIRONMENTAL	
Operating Temperature	-40°C to +90°C
Vibration	IEC 60721-3-4 Class 4M5
Flammability	UL 94 class V0
Humidity	ETSI EN300-2-4 T4.1E (95%)
Solar Radiation	ASTM G53

2.2. WBSn-2400 Sector Antenna Patterns

Azimuth pattern



Elevation pattern

