The vertically polarized sector antenna systems offered by AWS are constructed of UV stable fiberglass radomes for extremely long service life in the most demanding conditions. The antennas are constructed using corrosion resistant metal elements, which are more stable than PCB based antenna systems because they don't absorb moisture, which can degrade the performance of PCB based antenna systems. The 170E sector comes with a stainless steel sector bracket system for ease of installation and alignment. The 90E sector comes with a galvanized steel bracket with stainless steel hardware.

**APPLICATIONS**

- 2.4GHz ISM Band Applications
- Base Station Antennas
- 802.11b and 802.11g AWireless Systems
- AWi-Fi Access Points
- Point to Multi-point Systems

**SPECIFICATIONS**

- **Weight**
  - AWSSA120-9: 1.56 lbs (0.7 kg)
  - AWSSA120-16: 9.9 lbs (4.5 kg)
- **Dimensions (LxWxH)**
  - AWSSA120-9: 10 x 6.5 x 2.5 in (254 x 166 x 63.5 mm)
  - AWSSA120-16: 13 x 6.5 x 2.5 in (333 x 165 x 63.5 mm)
- **Input Return Loss**: 14 dB
- **Antenna Frequency Range**: 2.400-2.483 MHz
- **Gain**
  - AWSSA120-9: 9 dBi
  - AWSSA120-16: 16.4 dBi
- **Beamwidth**
  - AWSSA120-9: HPOL 120 degrees, VPOL 40 degrees
  - AWSSA120-16: HPOL 120 degrees, VPOL 7 degrees
- **Polarization**: Vertical
- **VSWR**: 1.0:1
- **Maximum Input Power**: 100 W
- **Impedance**: 50 Ohms

![Sector Antenna Diagrams](image1.png)  
120-9 Horizontal Plane  
120-16 Horizontal Plane