



SP220 is a new generation outdoor 802.11ac high-performance wireless access point. SP220 provides flexible and diverse field installation to adapt to any outdoor scenario regardless the pole-mounted.

- **Strong environment features**

With IP67 authentication SP220 can easily to deploy outside without water damage

- **Improve User Experience**

Support of Hotspot 2.0, eliminating the need for users to find and authenticate a network each time they connect, enabling a more cellular-like experience when connecting to Wi-Fi networks.

- **Wide Coverage**

Embedded antenna for over 400M coverage matches various scenario applications

- **Self-Configuration**

Self-Configuration accelerates the speed of connecting the devices, giving users a quick installation and easy deployment



# SP220

## 802.11ac Wave 2 Wireless Concurrent Outdoor AP

Chipset Solution	Qualcomm	
Standard Compliance	<ul style="list-style-type: none"><li>• IEEE802.3u MDI / MDIX 10/100/1000 Base-T Ethernet</li><li>• IEEE 802.11b/g/n</li><li>• IEEE 802.11an/ac</li></ul>	
Interfaces	<ul style="list-style-type: none"><li>• 1 x RJ45 support 10/100/1000Mbps</li><li>• 1 x SFP / Ethernet Port</li><li>• 1 x Reset button</li><li>• 1 x Ground terminal</li></ul> Option: N-type connector for external antenna	
Ethernet Interface	<ul style="list-style-type: none"><li>• 1 x 10/100/1000 BASE-T RJ-45 Ethernet connector</li></ul>	
Antenna number	<ul style="list-style-type: none"><li>• 2 x 2G internal antenna</li><li>• 2 x 5G internal antenna</li></ul>	
Antenna Gain	<ul style="list-style-type: none"><li>• 2G: 5dBi PCB antenna</li><li>• 5G: 5dBi PCB antenna</li></ul>	
PoE support	<ul style="list-style-type: none"><li>• IEEE 802.3at PoE+ support</li></ul>	
LED	<ul style="list-style-type: none"><li>• PWR</li><li>• WLAN</li><li>• WAN</li></ul>	
Anti-static Grade	IEC61000-4-2(Criteria B) Air: ±8kV Contact:±4kV	
Inbuilt Surge Protection	<ul style="list-style-type: none"><li>• line to earth 6KV</li><li>• line to line 2KV</li></ul>	
Power (Watts)	Up to 24W	
Supported Data Rates	<ul style="list-style-type: none"><li>• 802.11a: 6/9/12/18/24/36/48/54 Mbps &amp; Auto fallback</li><li>• 802.11b: 1/2/5.5/11 Mbps &amp; Auto fallback</li><li>• 802.11g: 6/9/12/18/24/36/48/54 Mbps &amp; Auto fallback</li><li>• 802.11n: up to 300Mbps</li><li>• 802.11ac: up to 867Mbps</li></ul>	
Data Modulation Type	IEEE 802.11 a/b/g <ul style="list-style-type: none"><li>• DSSS (DBPSK, DQPSK, CCK)</li><li>• OFDM (BPSK, QPSK, 16-QAM, 64-QAM)</li></ul> IEEE 802.11gn <ul style="list-style-type: none"><li>• OFDM (BPSK, QPSK, 16-QAM, 64-QAM)</li></ul> IEEE 802.11ac <ul style="list-style-type: none"><li>• OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)</li></ul>	
Operating Frequency & Channels	IEEE 802.11b/g/gn/n 20MHz/40MHz ISM Band <ul style="list-style-type: none"><li>• 2.412GHz~2.484GHz</li></ul> IEEE 802.11a/an/ac 20MHz/40MHz/80MHz ISM Band <ul style="list-style-type: none"><li>• 5.15GHz~5.25GHz; 5.72GHz~5.87GHz</li></ul>	
Transmit Power	27 dBm	
Dimensions	310mm (L) × 305mm (W) × 94mm (H)	
IP Rating	IP67	
Mounting Type	Pole Mount	
Temperature & Humidity	Operating	-40°C~65°C, 10 to 90% RH
	Storage	-40 to 70°C, 10 to 90% RH

Standard Protocol	<ul style="list-style-type: none"> <li>• TCP/IP · IPv4, IPv6</li> <li>• IPX</li> <li>• NetBEUI</li> <li>• CAPWAP</li> </ul>
Operating Mode	<ul style="list-style-type: none"> <li>• Thin AP mode</li> <li>• Fat AP mode</li> <li>• Router mode</li> </ul>
<b>TAP Mode</b>	
AC Detection	<ul style="list-style-type: none"> <li>• DHCP option 43, 60</li> <li>• DNS detection</li> <li>• Static IP detection</li> </ul>
FIT AP Zero Configure	Supported
<b>FAP Mode</b>	
Forwarding Mode	Local forwarding
PPPoE	Supported
DHCP Server	Supported
Limitation of Client Connections	Supported
IP and MAC Address Filtering	Supported
DMZ Host	Supported
Firewall	Supported
Router Protocol	Static Router, OSPF
System Log	Supported
Traffic Statistics	Supported
<b>WLAN</b>	
SSIDs	<ul style="list-style-type: none"> <li>• 2.4GHz (8 SSID)</li> <li>• 5.8GHz (8 SSID)</li> </ul>
VAP	<ul style="list-style-type: none"> <li>• 2.4GHz (8 VAP)</li> <li>• 5.8GHz (8 VAP)</li> </ul>
VLAN	Supported
Bandwidth Control	Supported
Flow Balance	Supported
WMM	Supported
Auto Power	Supported
Data Rate Selection	Supported
NTP Sever	Supported

<b>11n Functions</b>	
HT Protection	Supported
A-MPDU Aggregation	Supported
A-MSDU Aggregation	Supported
Short GI	Supported
Extended Channel Mode	Supported
Channel Mode	Supported
<b>WLAN Security</b>	
Encryption	<ul style="list-style-type: none"> <li>• 64/128-bits WEP</li> <li>• TKIP</li> <li>• AES</li> </ul>
Authentication	<ul style="list-style-type: none"> <li>• Open System</li> <li>• WPA-PSK/WPA2-PSK</li> <li>• 802.1X</li> <li>• WPA(2)</li> </ul>
Wireless Isolation	Supported
Hidden SSID	Supported
MAC Access Control (ACL)	Supported (1-256)
Web Portal Authentication	Provided by AC
<b>Management</b>	
CAPWAP	Supported
SNMP MIB	Supported (FAP Mode)
SNMP Trap	Supported (FAP Mode)
CLI	Support SSH, Telnet
Web UI Management	Supported
Fault Detection and Alarm	Supported
<b>Diagnosis Capabilities</b>	
User List	Supported
Adjacent AP Scan	Supported
IP Ping Test	Supported
Port Statistics	Supported