

GP-AP1800AX-FS

**1775M WiFi6 outdoor
Industrial wireless AP**



CE FCC

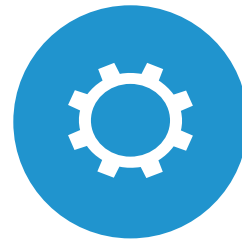


Introduction

GP-AP1800AX-FS outdoor AP product is based on IEEE802.11ax technology independently developed by GPSENKE.

It support 802.11b/g/n/ac/ax standard, Dual-frequency maximum bandwidth up to 1775Mbps. Can widely used in medical/ treatment/ schools/ underground/ parks/ pipecorridors/ scenicspots/ amusement and other outdoor wireless network coverage.

GP-AP1800AX-FS usenewest qualcomm-chip optimization algorithm. It has high anti-interference ability, high bandwidth, highstandby, strongstability, and support fat and thin integrated mode. The professional integrated outdoor design with IP67 waterproof and wide temperature working ability are very convenient for outdoor installation.



Characteristic

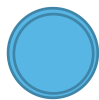
- 802.11 b / g / n / ac / ax standard
- Diversified access authentication
- Support 802.11k / v / r protocol
- Support 2 Gigabit LAN + 1 SFP optical slot
- IP 67 protection leve



Software specifications

WLAN	Work frequency band	2.4GHz	5GHz
	Channel bundling	40MHz	80MHz
	MU -MIMO	Support	Support
	OFDMA	Support	Support
	TWT	Support	Support
	1200Mbps(PHY)	NA	Support
	575Mbps(PHY)	Support	NA
	A-MPDU	Support	Support
	MLD	Support	Support
	MRC	Support	Support
	STBC	Support	Support
	LDPC	Support	Support
	Max number of supported virtual AP's	Single RF of 16 virtual AP	
	Maximum number of access users	1024 (Actual number of users varies due to application environment and other factors)	
	Maximum connection rate	2.4GHz : 575Mbps	5GHz : 1200Mbps
	RTS/CTS	Support	
	CTS-to-self	Support	
	Hide SSID	Support	
	Terminal aging, heartbeat detection	Support	
work pattern	Bridge mode (two layers) Routing mode (three layers)		

RF management	load balancing	Support load balancing based on user number and user traffic
	5G preferred	Support
	Automatic channel selection	Support
	Automatic power regulation	Support
	Intelligent rate selection algorithm	Support
	Fair time scheduling	Support
Roaming	Roam switch	Supported by 802.11k, 802.11v, 802.11r
		Second floor roaming, third floor roaming
Safety	encryption mode	Support for 64 / 128-bit WEP, dynamic WEP, TKIP, and CCMP encryption
	Certification method	With AC, support WPA, WPA-PSK, WPA 2Enterprise, WPA 2-PSK, MAC address certification, Web certification, PPPoE certification and other certification methods
	Wireless user 2-layer isolation	Support
	wIDS	Support
AAA	Radius Client	Support
	Certification server multi-domain configuration	Support
	Backup the authentication server	Support
2 / 3 - layer functions	IP address setting	Static IP, DHCP dynamically obtain addresses
	IPv6	Support
	ACL	Support
	DHCP server	Support (in routing mode)
	NAT	Support (in routing mode)
Quality of service	WMM(802. 11e)	Support
	Priority mapping	Support
	QoS policy mapping	Support
	Bandwidth management	Support for SSID-based, user-based bandwidth speed limit
	Call Admission Control(CAC)	Support
Management maintenance	Fadministration of networks	SNMP V 1/V 2c /V 3 、 Trap 、 Telnet 、 FTP /TFTP 、 WEB



Hardware specifications

Size		240mm * 200mm * 80mm (excluding length of waterproof joint)
Weight		1.2kg
Interface	Ethernet interface	10 / 100 / 1000M Ethernet port: 1 1000M SFP optical interface: 1 console mouth: 1
Antenna	Bulid-in Antenna	2.4G: ≥ 11 dBi@ 2.4~2.4835GHz , 61 degrees horizontal angle, 30 degrees vertical 5G: ≥ 11 dBi@ 5.15~5.85GHz, 78 degrees horizontal angle, 30 degrees vertical
	Bulid-out Antenna	4 N-K type RF interfaces (2.4GHzx 2,5GHzx 2) built-in lightning protection
Working band	2.4G	802.11ax/n/g/b: 2.4GHz-2.483GHz (China)
	5G	802.11 ax/ac/n/a: 5.150GHz-5.350GHz 5.725GHz-5.850GHz (China)
modulation technique	OFDM : BPSK@6/9Mbps、QPSK@12/18Mbps、16-QAM@24Mbps、64-QAM@48/54Mbps DSSS : DBPSK@1Mbps、DQPSK@2Mbps、CCK@5.5/11Mbps MIMO-OFDM (11n) : MCS 0-15 MIMO-OFDM (11ac) : MCS 0-9 MIMO-OFDM (11ax) : MCS 0-11	
modulation mode	11b: DSS:CCK@5.5/11Mbps,DQPSK@2Mbps,DBPSK@1Mbps 11a/g: OFDM:64QAM@48/54Mbps,16QAM@24Mbps,QPSK@12/18Mbps,BPSK@6/9Mbps 11n: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM 11ac/ac wave2: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM,256QAM 11ax: MIMO-OFDM: BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM	
Maximum transmit power		27dBm
Emission frequency with adjustable granularity		1dBm
Operating temperature /Storage temperature		-40°C ~ 75°C/-40°C ~ 80°C
Working humidity / storage humidity		0%~100%(Non-condensing)
IP protection		IP67
Receive electricity		Support for 802.3at power supply
Complete machine power consumption		$\leq 20W$
MTBF		>250000H