

DrayTek Sales Kit

VigorAP 962C
Firmware 1.5.4

2x3 AX3000 Dual Band 802.11ax Ceiling AP



Marketing, DrayTek Corp.

High Performance 802.11ax Wireless AP

Powerful WiFi6 Access Points for Better Network Efficiency

VigorAP 962C is a dual-band WiFi 6 Access Point, offering link rate of 600Mbps in 2.4GHz and 2400Mbps in 5GHz. With support up to 256 concurrent clients and powerful mesh network, it provides excellent and reliable wireless connectivity, making it the perfect solution for high-speed and high-density environments.



	Data Rate	Link Rate
2.4G Wireless Performance		
11ax	370 Mbps	574 Mbps
11n	270 Mbps	400 Mbps
5G Wireless Performance		
11ax	1400 Mbps	2100 Mbps
11ac	711 Mbps	866 Mbps

*The above 11ax performance test results were tested with WPA3-Personal encryption method.

* Tested with the wireless client chipset model: Intel AX200; Asus AC88 PCIe

DrayOS 5

New proprietary DrayTek Operation System!



Hardware



1 LAN : 2.5G/1G/100M/10M Base-T RJ-45
PoE-PD Support

2 Factory Reset Button

3 DC Power Input

Wireless Virtual Controller

Intelligent Auto-Configuration

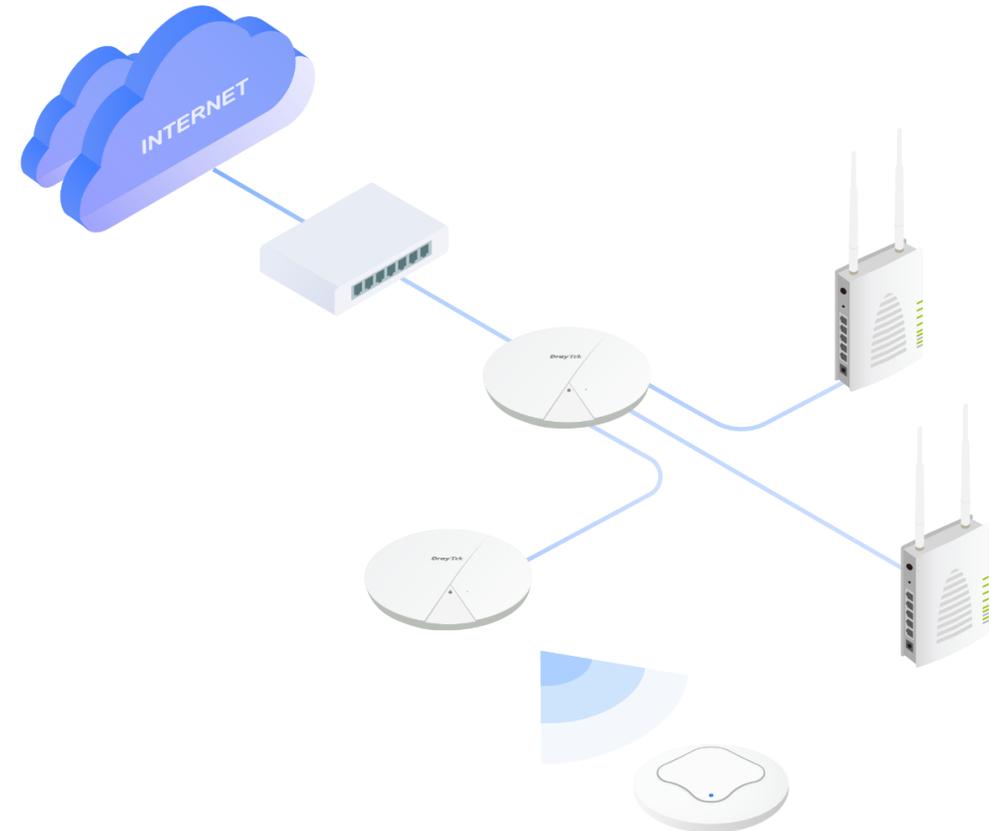
Once connecting to VigorAP 962C, this feature can detect the type of AP, wired or wireless, and automatically determine the most appropriate network topology. For smaller wireless environment with fewer than 8 APs, it seamlessly enables Mesh mode; while in larger wired installation with more than 8 APs, then AP management mode will be activated for enhanced control and scalability.

Wireless Device Monitoring

The panel provides a comprehensive view of your network, allowing you to easily monitor devices, mesh status, and nearby APs. With the ability to monitor AP devices, it enables to check WLAN clients, MAC, IP address, Status, SSID of each radio, number of clients, and firmware version all in one page, even AP offline can be spotted. It is much more easier to manage and optimize network with ease effectively.

Zero Touch Deployment

After auto-detecting and adding Node AP into management group, Root AP will provision the relevant AP configurations to node APs.



WiFi Roaming

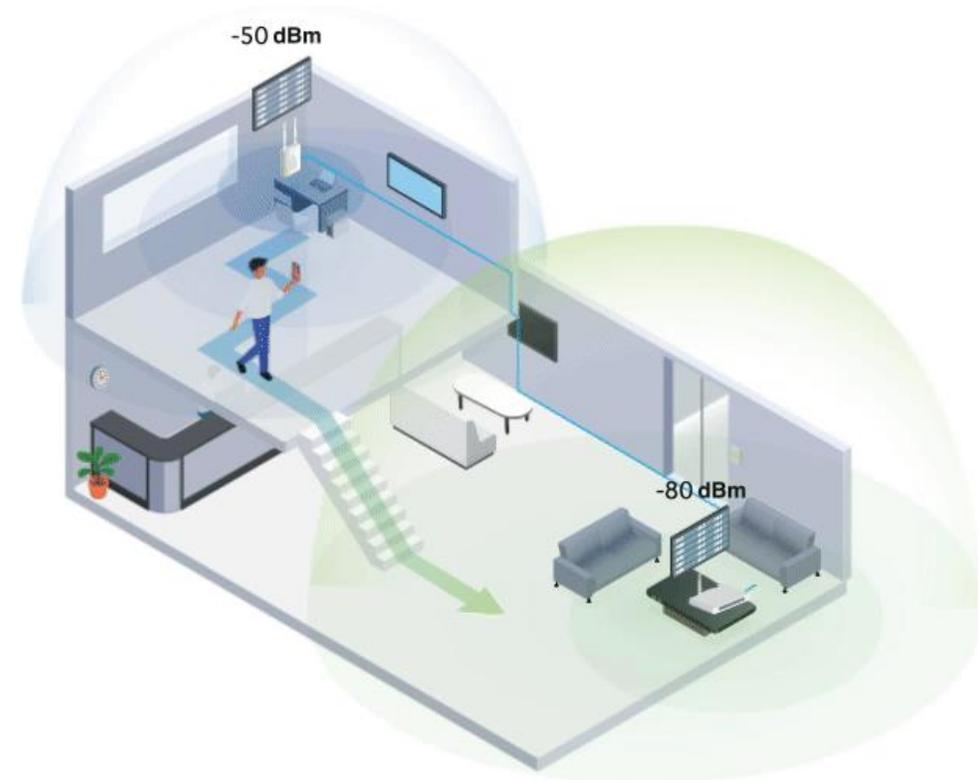
Solve the sticky client problem and improve WiFi roaming experience.

Roaming Protocol

VigorAP 962C supports 802.11r, 802.11k, and 802.11v roaming protocols. These protocols enable WiFi clients to seamlessly transition to another AP/router that offers a stronger signal when moving within an area that has multiple APs/routers. Clients that are also compatible with these roaming protocols will experience the advantages of proactive roaming.

Assisted Roaming

The "Minimum RSSI with Adjacent AP" option in VigorAP allows for the disassociation of a client only if there is another adjacent AP/router that provides a stronger wireless signal to the client. Otherwise, the client will remain connected.

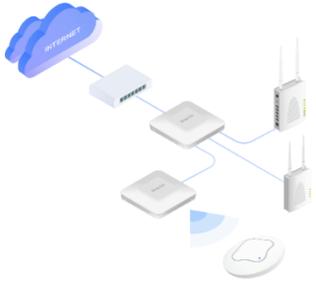


Central Management

All-in-One Management

Wireless Virtual Controller

Wireless Nodes: 8 APs
Total Nodes (Wireless + Wired): 20 APs



- Automatically detect Wireless/Wired AP
- AP Discovery
- Auto-Provisioning
- Monitoring

Software Management

VigorACS

Since ACS 3.6.0
& AP F/W 1.5.4



- Provisioning
- Monitoring
- Centralized Hierarchy View
- Alarm
- Remote AP/Switch/Router Maintenance
- Scheduled Maintenance
- Report

VigorConnect

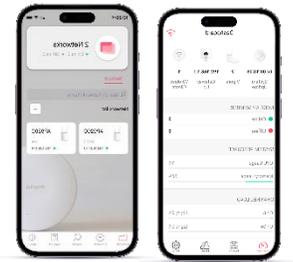
*Since 1.9.2
& AP F/W 1.5.4



- AP/Switch Discovery
- Auto-Provisioning
- Monitoring
- Centralized Hierarchy View
- Alarm
- Remote AP/Switch Maintenance
- Scheduled Maintenance

Wireless APP

Since 1.3.2
& AP F/W 1.5.4



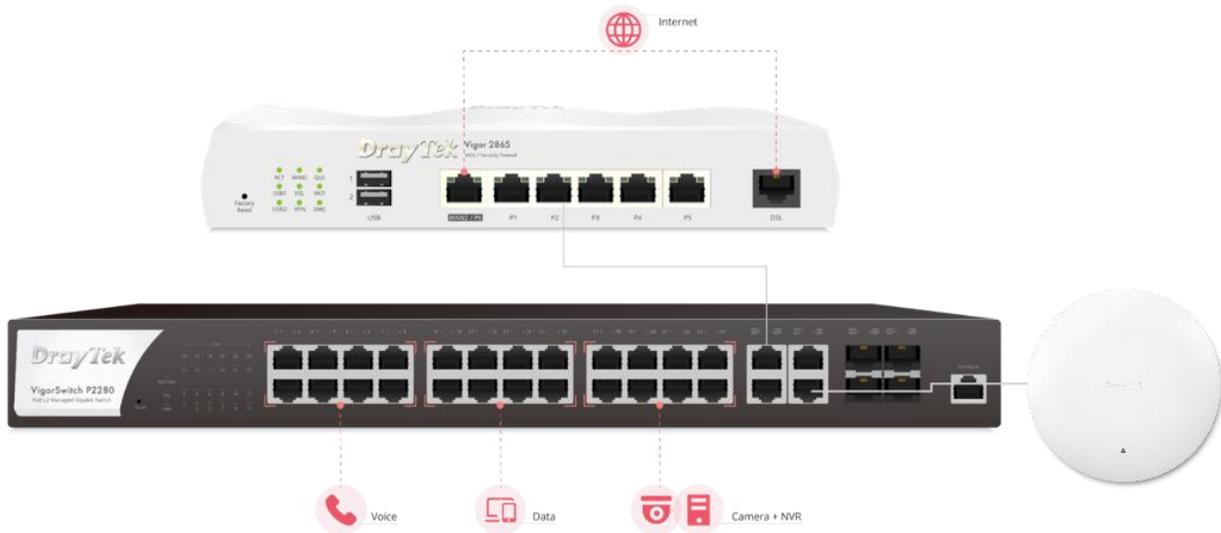
- Build Wireless Network
- Monitoring
- Parental Control & Client Management
- Mesh Wi-Fi Setup
- Check signal strength and speed test
- Scheduled Maintenance

Router-based AP Management

DrayTek provides an all-in-one management platform for Vigor devices on the LAN side.

Automatic Device Discovery

All you need is connect the VigorAP to the LAN side of the router, Vigor Router will then discover the devices to be managed.



Provisioning

Wireless LAN profile may be set previously on the Vigor Router. Once the managed VigorAP is connecting to the router, the setting profile will be provisioned to the VigorAP automatically.

Monitoring

Vigor Router provides a centralized view for managed devices, you may always check if the managed VigorAP is online.

System Maintenance

You may perform a factory reset, save/restore a configuration backup, or trigger a remote reboot directly on the Vigor Router. There's no need to log in to each device's management page.

What's New on **DrayOS 5**

Notification Service

VigorAP 962C and other DrayOS5 APs can send notifications to the DrayTek Wireless App (since version 1.3.3) when detecting client disconnections, mesh node offline, and login events. The network admin can conveniently receive notifications for wireless network events from his phone.

MAC Filtering for Access Control List

This feature helps prevent unauthorized devices from connecting to AP. To enable Access Control and set up the Allow/Block policy in DrayOS5:

- Go to Security >> MAC Filtering Profile to generate a profile.
- Add the devices' Names and MAC addresses to the profile.
- Apply the MAC Filtering list to SSID Settings via Configuration >> Wireless LAN to complete Access Control management.

User-friendly configuration design for wireless LAN

In contrast to DrayOS4, where SSID, Radio Settings, Roaming, and other wireless setup information need to be configured on different pages, DrayOS5 simplifies this process. All these settings can now be conveniently completed on a single page under Configuration >> Wireless LAN, offering users a more straightforward wireless configuration experience.

What's New on DrayOS 5

View Clients wireless status in one page

In DrayOS4, client related info is presented separately in Wireless LAN 2.4GHz or Wireless LAN 5GHz. From now on, you can check both channel clients in Monitoring >> Clients List, which shows more details to help you comprehensively manage client information in a single page.

Clients List

MAC	Up Time	Link Speed	RSSI	SSID	Usage Up	Usage Down	CH	Band	BW	Physical Mode	Auth Mode	Encrypt
	0d 03:00:11	432 Mbps / 6 Mbps	26% (-79dbm)	guests_4F	18.258MB	3.583GB	36	5GHz	80M/80M	802.11ax	WPA3 Personal (FT)	AES
	0d 02:47:25	585 Mbps / 702 Mbps	60% (-66dbm)	staffs_4F	56.611MB	96.057MB	36	5GHz	80M/80M	802.11ac	WPA2 Personal	AES
	0d 02:41:22	585 Mbps / 24 Mbps	34% (-76dbm)	staffs_4F	82.659MB	39.246MB	36	5GHz	80M/20M	802.11ac	WPA2 Personal	AES
	0d 02:25:18	433 Mbps / 24 Mbps	60% (-66dbm)	staffs_4F	8.030MB	14.929MB	36	5GHz	80M/80M	802.11ac	WPA3 Personal (FT)	AES
	0d 00:20:18	960 Mbps / 24 Mbps	42% (-73dbm)	staffs_4F	828.744KB	3.000MB	36	5GHz	80M/20M	802.11ax	WPA3 Personal (FT)	AES
	0d 00:36:48	720 Mbps / 24 Mbps	39% (-74dbm)	guests_4F	2.724MB	4.698MB	36	5GHz	80M/80M	802.11ax	WPA3 Personal (FT)	AES
	0d 00:19:32	72 Mbps / 65 Mbps	81% (-58dbm)	guests_4F	21.151MB	8.350MB	1	2.4GHz	20M/20M	802.11n	WPA2 Personal	AES

Mesh Central Management

Root	Node							
	AP 1062C	AP 1060C	AP 962C	AP 960C	AP 906	AP 918R	AP 912C	AP 903
AP 1062C	Y		Y		Y			
AP 1060C		Y		Y		Y	Y	Y
AP 962C	Y		Y		Y			
AP 960C		Y		Y		Y	Y	Y
AP 906					Y			
AP 918R		Y		Y		Y	Y	Y
AP 912C		Y		Y		Y	Y	Y
AP 903		Y		Y		Y	Y	Y

Root	Node							
	AP 1062C	AP 1060C	AP 962C	AP 960C	AP 906	AP 918R	AP 912C	903
2135ac/2765ac/2766ac		Y		Y		Y	Y	Y
2135ax/2765ax/ 2766ax	Y		TBD		Y			
2927ac/2865ac/2866ac		Y		Y		Y	Y	Y
2927ax/2865ax/2866ax	Y		TBD		Y			
2862ac/2926ac								Y
2763ac		Y		Y		Y	Y	Y

Vigor Access Point Comparison

		WiFi 6				WiFi 5		
	VigorAP 962C	VigorAP 1062C	VigorAP 1060C	VigorAP 960C	VigorAP 906	VigorAP 918R Series	VigorAP 912C	VigorAP 903
								
LAN Port	1x 2.5 GbE PoE-In	1x 2.5 GbE PoE-In	1x 2.5 GbE PoE-In	1 GbE PoE-In	1 GbE PoE-In + 1 GbE PoE-Out	1 GbE PoE-In + 1 GbE PoE-In	1 GbE PoE-In	4 GbE + 1 GbE PoE-In
USB Port	X	X	X	X	X	X	X	1 x USB 2.0
Antenna	5 x PiFA interna internal (2x 2.4G + 3x 5G)	4 x dual band PiFA internal	4 x dual band internal	2 x dual band PiFA internal	2 x dual band external	2 x dual band external + 1x 5G Directional Patched Internal	2 x dual band PiFA internal	2 x dual band external
No. of Radio	1 x 2.4GHz + 1 x 5GHz	1 x 2.4GHz + 1 x 5GHz	1 x 2.4GHz + 1 x 5GHz + 1 x 2.4/5GHz RF analytics radio	1 x 2.4GHz + 1 x 5GHz	1 x 2.4GHz + 1 x 5GHz	1 x 2.4GHz + 1 x 5GHz	1 x 2.4GHz + 1 x 5GHz	1 x 2.4GHz + 1 x 5GHz
2.4 GHz Link Speed	600 Mbps	1200 Mbps (4x4)	1200 Mbps (4x4)	600 Mbps	574 Mbps	400 Mbps	300 Mbps	400 Mbps
5 GHz Link Speed	2400 Mbps	4800 Mbps (4x4)	2400 Mbps (4x4)	1200 Mbps	2402 Mbps	867 Mbps	867 Mbps	867 Mbps
Max. Connective Clients	256 (total radio)	256 (total radio)	256 (128 per radio)	256 (128 per radio)	254 (127 per radio)	256 (128 per radio)	256 (128 per radio)	128 (64 per radio)
Max. Number of SSID	16 (8 per radio)	16 (8 per radio)	16 (8 per radio)	8 (4 per radio)	8 (4 per radio)	8 (4 per radio)	8 (4 per radio)	8 (4 per radio)
2.4 GHz Standard	802.11 b/g/n/ax	802.11 b/g/n/ax	802.11 b/g/n/ax	802.11 b/g/n/ax	802.11 b/g/n/ax	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
5 GHz Standard	802.11 a/n/ac Wave 2/ax	802.11 a/n/ac Wave 2/ax	802.11 a/n/ac Wave 2/ax	802.11 a/n/ac Wave 2/ax	802.11 a/n/ac Wave 2/ax	802.11 a/n/ac Wave 2	802.11 a/n/ac Wave 2	802.11 a/n/ac Wave 2
MIMO	2x3 MU-MIMO	4x4 MU-MIMO	4x4 MU-MIMO	2x2 MU-MIMO	2x2 MU-MIMO	2x2 MU-MIMO	2x2 MU-MIMO	2x2 MU-MIMO

Vigor Access Point Comparison

	WiFi 6				WiFi 5			
	VigorAP 962C	VigorAP 1062C	VigorAP 1060C	VigorAP 960C	VigorAP 906	VigorAP 918R Series	VigorAP 912C	VigorAP 903
Fast Roaming	✓	✓	✓	✓	✓	✓	✓	✓
AP-Assisted Roaming	✓	✓	✓	✓	✓	✓	✓	✓
AirTime Fairness	✓	✓	✓	✓	✓	✓	✓	✓
Band Steering	✓	✓	✓	✓	✓	✓	✓	✓
Managed via VigorAP Mesh Root	✓	✓	✓	✓	✓	✓	✓	✓
Managed via DrayTek Wireless App	✓	✓	✓	✓	✓	✓	✓	✓
Managed via Vigor Router APM	✓	✓	✓	✓	✓	✓	✓	✓
Managed via VigorConnect	*VigorConnect v1.9.2	✓	✓	✓	✓	✓	✓	✓
Managed via ACS	✓	✓	✓	✓	✓	✓	✓	✓
Suitable Environment	Indoor	Indoor	Indoor	Indoor	Indoor	Outdoor	Indoor	Indoor