DrayTek VigorAP 1000C Tri-Band 802.11ac Ceiling-Mount Mesh Wireless Access Point (VAP1000C-K)

Product Name: DrayTek VigorAP 1000C Tri-Band 802.11ac Ceiling-Mount Mesh Wireless Access Point (VAP1000C-K)
Manufacturer: Draytek
Model Number: VAP1000C-K

Please Note: This product is currently on pre-order. For an alternative, pleasee see the VAP903-K

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The DrayTek VigorAP 1000C is a high-performance Mesh Wireless solution, designed to expand the wireless coverage, eliminate WiFi dead zones and significantly reduce the cost of network deployments. It can also be used as a traditional access point either managed or stand alone so has the flexibility to be used how you need it.
DrayTek VigorAP 1000C Key Features

ï¿½ Ceiling-mount high capacity Mesh Wireless Access Point
ï¿½ Secondary 5GHz radio – Dedicated Mesh backhaul, or higher client density
ï¿½ AC2200 - 11ac ‘Wave 2’ Tri Band Wireless
ï¿½ Multi-SSID over Mesh – Separate internal and Guest network sover Mesh
ï¿½ Power through 802.3at PoE+ or DC power adapter
ï¿½ 2nd Gigabit Ethernet port
ï¿½ Centrally Managed or Standalone operation

The VigorAP 1000C is a Tri-Band 802.11ac Wave 2 Mesh Wireless solution, designed to eliminate wireless drop outs, stuttering videos, slow download speeds, poor signal and WiFi dead zones. One access point acts as the controller (Mesh root) and in total up to 8 access points create an easy to manage wireless mesh. Extend coverage without running expensive cabling. Dedicate a 5Ghz radio as a Mesh Backhaul for increased Mesh performance and client capacity.

Mesh Wireless
DrayTek’s Mesh system connects and intelligently manages a group of VigorAPs over wireless. The Self-Optimising Mesh ensures your wireless network nodes are always using the fastest path to the Mesh Root.
Tri-Band Access Point
The VigorAP 1000C provides one 2.4GHz and two 5GHz radios. Designate one 5GHz radio as a dedicated Mesh backhaul for improved Mesh network performance. Alternatively, use all 3 radios for wireless access to connect up to 384 clients per AP.
Gigabit Power Over Ethernet
The VigorAP 1000C can be powered through its Gigabit Ethernet interface with standard IEEE 802.3at PoE+ for a tidier and more convenient installation. Connect extra devices to the AP’s 2nd LAN port.
Easy to Configure and Manage
The DrayTek Wireless app simplifies setting up your network. Optionally configure and monitor through one of DrayTek’s management platforms - VigorACS cloud, VigorConnect, Router AP Management, or directly via the AP’s Web Interface.
Ceiling Mounting
The VigorAP 1000C blends well with most home or office interior. Its adaptable deployment options include ceilings and wall mounting. The VigorAP clips into its ceiling plate for secure mounting and easier maintenance.

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Wireless Optimisation
Dedicated Backhaul for Mesh: Improves Mesh performance. 802.11ac Wave 2: Multi-User MIMO improves efficiency Band Steering: Allows 5GHz devices to achieve optimum speeds. AP Assisted Roaming: Helps clients connect to the best AP.
DrayTek VigorAP 1000C Technical Specifications
Physical Interfaces/Controls

ï¿½ 2 x Gigabit Ethernet LAN Ports, RJ45 (Port 1 accepts PoE Power)
ï¿½ Factory Reset Button (recessed)
ï¿½ DC Power Socket
ï¿½ 1 x Security Lock
ï¿½ Built-In Temperature & Humidity Sensor
ï¿½ USB 2.0 Port

Wireless Performance

ï¿½ AC2200 Class Wireless Access Point
ï¿½ 2.4GHz: PHY Rate 400Mb/s
ï¿½ 5GHz (1): PHY Rate 866Mb/s
ï¿½ 5GHz (2): PHY Rate 866Mb/s, optional dedicated backhaul for Mesh

Operating Modes

ï¿½ Access Point
ï¿½ Mesh Root
ï¿½ Mesh Node
ï¿½ Range Extender

Wireless LAN Compatibility

ï¿½ IEEE 802.11ac (Wave 1 & 2)/a/b/g/ n
ï¿½ Frequency Band 2.4 GHz & 5.8Ghz - Simultaneous Operation
ï¿½ Up to 12 SSIDs per AP (4 per radio)
ï¿½ Up to 128 clients per radio
ï¿½ 384 clients in total per AP

2.4GHz Wireless LAN Features

ï¿½ 802.11b, 802.11g, 802.11n
ï¿½ 20 / 40 MHz
ï¿½ Up to 400Mb/s total Wi-Fi throughput (PHY Rate):- 802.11b/g/n: 300Mb/s PHY rate (150Mb/s per Spatial Stream)- 256-QAM: 400Mb/s (200Mb/s per Spatial Stream)

5Ghz Wireless LAN Features

ï¿½ 802.11ac (Wave 1 & 2) / 802.11n / 802.11a
ï¿½ 20 / 40 / 80 MHz
ï¿½ DFS/TPC Support
ï¿½ Multi-User MIMO
ï¿½ Extended 5Ghz Band – Channels:- 5GHz Radio 1: 36-48, 52-64- 5GHz Radio 2: 100-140
ï¿½ Up to 866Mb/s WiFi throughput per 5GHz radio, 1733Mb/s total (PHY Rate):- 802.11a/n: 300Mb/s PHY rate (150Mb/s per Spatial Stream)- 802.11ac: 866Mb/s PHY rate (433Mb/s per

Spatial Stream)

Security Features

ï¿½ Wireless Encryption: - WPA2/WPA3* - Pre-Shared Key authentication - Enterprise 802.1x authentication - Also supports WPA/WEP (Not recommended)
ï¿½ MAC Address Filtering (ACL) - Up to 256 entries
ï¿½ Built in 802.1x server (PEAP / EAP-TLS)
ï¿½ 802.1x RADIUS Proxy (PEAP / EAP-TLS)
ï¿½ PMK Caching & Pre-authentication
ï¿½ Wireless Client Isolation
ï¿½ Control Isolation of 2.4GHz and 5GHz bands
ï¿½ Hidden SSIDs (Selectable)
ï¿½ WPS - WiFi Protected Setup
ï¿½ Mobile Device Management
ï¿½ EAPOL Key Retry - Disable EAPOL Key Retry to protect unpatched WLAN clients from KRACK

Wireless Control Features

ï¿½ 802.1q VLAN
ï¿½ Up to four distinct SSIDs (for VLANs) for each radio (2.4/5Ghz)
ï¿½ Multi-SSID over Mesh – Separate internal and Guest networks over Mesh*
ï¿½ Wireless Client Status List in WUI
ï¿½ Client Limit per radio
ï¿½ Client Limit per SSID
ï¿½ MAC Cloning
ï¿½ Built-in DHCP Server & DHCP Relay
ï¿½ Trusted DHCP Server IP for WLAN - Only specified DHCP server IP can assign IP addresses to WLAN clients
ï¿½ Station Control - Time limit wireless connectivity per Station (e.g. 1 hour) & set allowed Reconnection time (e.g. 1 day)
ï¿½ Device Object/Group Control - Schedule Internet access for individual devices or groups
ï¿½ Wireless Auto On/Off - Disable Wireless if VigorAP is unable to ping specified host

Wireless Performance Optimisation

ï¿½ Airtime Fairness
ï¿½ Band Steering
ï¿½ AP-Assisted Client Mobility
ï¿½ WMM (Wireless MultiMedia)
ï¿½ Bandwidth Management (Per Station / Per SSID)

Diagnostic Features

ï¿½ System Log
ï¿½ Speed Test
ï¿½ Traffic Graph
ï¿½ Wireless LAN Statistics
ï¿½ Interference Monitor - Built-in Site Surveyor
ï¿½ Integrated Temperature & Humidity Sensor

Management

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ï¿½ Web Interface (HTTP/HTTPS)
ï¿½ DHCP Client
ï¿½ TR-069 Control (For VigorACS or other TR-069 platform)
ï¿½ CLI (Command Line Interface) – Telnet
ï¿½ Access Control List for management interfaces
ï¿½ Firmware upgrade by TR-069/HTTP
ï¿½ Central AP Management (from compatible DrayTek router/controller)
ï¿½ SNMP v2, v2c, v3
ï¿½ Management VLAN
ï¿½ Configuration File Export (with password) & Import

Power Requirements

ï¿½ Maximum Power Consumption: 19.2 Watt
ï¿½ DC 12V via external 100-240v AC/DC PSU
ï¿½ PoE Standards: 802.3at PoE+
ï¿½ PoE adapter not supplied, requires PoE injector or a PoE switch such as the VigorSwitch P1092

Environmental & Physical

ï¿½ Operating Temperature: 0 ° C to 45 ° C
ï¿½ Operating Humidity: 10% to 90% (Non-condensing)
ï¿½ Physical Dimensions: 176mm (width) x 176mm (depth) x 30mm (height)
ï¿½ Weight: 0.5kg
ï¿½ Ceiling or Wall Mountable

Pack Contents

ï¿½ VigorAP 1000C wireless access point
ï¿½ Ceiling Mount Bracket & fittings kit
ï¿½ Quick Start Guide
ï¿½ Ethernet Cable

Certification

ï¿½ ROHS & CE Compliant

Warranty

ï¿½ Two (2) Year Manufacturer’s RTB

*Future release by firmware Upgrade

Price: £197.80