

# VigorSwitch P2261

PoE 24+2 Giga Port L2 Managed Switch

DrayTek

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- 24+2 Port PoE Managed Switch
- 20 x 10/100/1000Base-T Gigabit Ethernet ports for the LAN side
- Fiber connectivity for the backbone: 2 SFP ports and 4 Combo UTP/SFP ports
- Advanced security for remote access, IP Source Guard, 802.1x access control, etc.
- Access Control List (ACL) to prevent unauthorized access
- VLAN features provide both security and performance
- Dedicated Voice VLAN to prioritize voice traffic automatically
- Advanced QoS for application traffic prioritization
- Preset options for IP Phone, IP Camera, Wireless devices, etc.
- UPnP for simple connectivity
- Power saving by 802.3az Energy Efficient Ethernet
- sFlow sampling protocol monitors network traffic without interrupting data flow
- IPv6 and IPv4 conformity for the next generation network

VigorSwitch P2261 is a L2+ managed PoE switch designed for small to medium sized businesses. It offers Power over Ethernet feature to ease the field deployment tasks. To cater for high bandwidth traffic, it is equipped with 20 Gigabit Ethernet ports for the LAN side, and 6 Dual SFP ports, 2 of which are for fiber and the other 4 can be used for either UTP (Ethernet cable) or SFP (fiber) connections, for the backbone side. It has security features to meet the needs of managing local and remote access to the network. Furthermore, it has VLAN capability to allow flexible network design, and QoS capability for flexible bandwidth control. It supports 802.3az energy saving standards, sFlow network monitoring, IPv6 and IPv4 and many other functions. With preset options for configuring network devices and plug and play features, this switch is truly an ideal solution for business grade network infrastructure.

## PoE for efficient installation

24-PoE ports allow power to be supplied to end devices, such as Wireless Access Points IP Phones and IP cams, directly through the existing LAN

cables, eliminating costs for additional AC wiring and reducing Installation Cost. It frees your wireless AP deployment from restriction due to power outlet location. By supplying the power end-span, you can centralize power distribution and backup without the need to increase infrastructure.

## PoE Specification

- 24-port IEEE802.3aT PoE PSE
- PoE Activity LED Indicator
- 185 Watts of Total Power (up to 30 watts per port)
- Auto detect powered device and consumption levels
- Supports per port power consumption monitoring
- Smart feature for PD on/off, PD detection, power level, PD status and power feeding priority
- Circuit protection to prevent power interference between ports
- Supports per port PoE State setting
- Supports per port power priority setting





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## **Advanced network security**

Network security is a lifeline for modern day businesses, and is multi-faceted. To manage remote access, VigorSwitch P2261 supports SSH, SSL and SNMPv3 connection with encrypted packet content for each session. To prevent illegal access of data ports, it supports IP Source Guard which blocks illegal IP addresses for accessing specific ports or receiving data packets. To manage access to port-based network devices, it supports IEEE 802.1X port security standard. And, to prevent illegal logins, it supports Access Control List (ACL) function, ensuring only authorized users can access designated network resources.

## **Virtual LAN**

VLAN provides a way for businesses to assign network functions to different workgroups, branches, sections, employees or visitors, according to their operational requirements. VigorSwitch P2261 offers the Layer 2 Isolation feature (tag-based) VLAN for the groups. You can also use network devices' MAC addresses for the VLAN profiles (MAC-based VLAN).

The Voice VLAN function of VigorSwitch P2261 assigns a preset VLAN profile with appropriate level of QoS for VoIP traffic. This ensures that voice related traffic will not be delayed because of inappropriate priority treatment.

For each of the VLAN groups, you can set rate limits for both ingress and egress traffic based on per port or per group.

## **Quality of Service for application prioritization**

VigorSwitch P2261 is equipped with advanced QoS features to ensure that traffic for various applications are treated with the desired priorities. It offers classification types including: port based, 802.1p VLAN priority based, IPv6/IPv4 precedence, type of services (ToS), DSCP based, Differv classification and remarking ACLs, Trusted QoS, etc. There are 8 priority levels based on 8 hardware queues, and these can be linked to time scheduling for upmost flexibility.

## **Easy configuration and connectivity**

With the increasing number of mobile devices joining PCs and servers in business environment, the configuration of network switches can be a source of frustration. VigorSwitch P2261 comes with preset options for network devices such as IP phone, IP camera, Wireless devices, etc. The web based configuration pages allow you to just select the well sorted options, such as security and network features (ACL, IP Source Guard, VLAN, QoS, etc.) as required.

VigorSwitch P2261 supports Universal Plug and Play (UPnP) features, making it easy to connect network devices including PC, server, IP phone, IP camera, Wireless AP, etc. And with the ample number of Gigabit Ethernet ports on the LAN side and the UTP/FTP ports on the backbone side, these features make building up of business network infrastructure a lot simpler.

## **Additional benefits**

Following DrayTek's green product policies, VigorSwitch P2261 complies with IEEE 802.3az Energy Efficient Ethernet standards. When it detects that the network is idle it will turn to Sleep mode. Also, it detects the cable length automatically and send the packets with just enough power for the devices. In this way, it saves power consumption costs, being environmentally friendly while maintaining high performance levels.

Often the network administrators need to monitor data flow on each port for the purpose of accounting, billing for usage, security checking, performance optimization, etc. VigorSwitch P2261 supports sFlow sampling protocol, allowing monitoring of network traffic without interrupting data flow or compromising traffic performance.

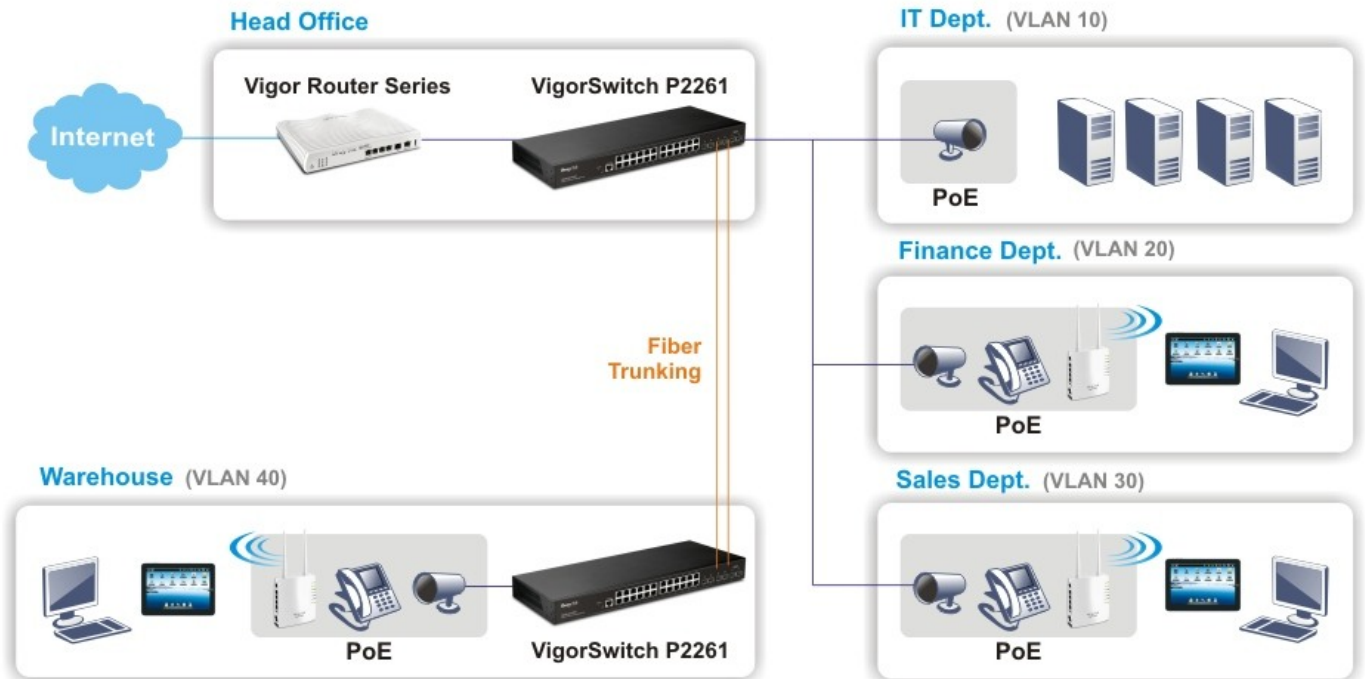
VigorSwitch P2261 supports both IPv6 and IPv4 ensuring ongoing conformity of IP network standards.

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## Comparison Chart

	P2260	P2261
<b>Hardware</b>		
Hardware	24 FE-Port + 2 Giga-Port with 2 Combo(1000M) Ports	24 Giga-Port with 4 Combo(Dual) Ports + 2 SFP(Dual) Ports
Copper	4 UTP/SFP(1000M)	4 UTP/SFP +2 SFP (dual)
PoE	af	af/at
<b>Feature</b>		
<b>PoE Schedule</b>		
	Specified to hour Weekly circulation only	Specified to minute Customized date/time
<b>L2 Switching</b>		
Voice VLAN		●
MAC-based VLAN		●
<b>Security</b>		
L2 Isolation		●
IP Source Guard		●
<b>QoS</b>		
Rate Limiting	Per Port	Per Port/VLAN
<b>Management</b>		
sFlow		●
Easy Port		●
UPnP		●
802.3az		●



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## Technical Specifications

<b>Hardware Interface</b>	20 x 10/100/1000Base-T, RJ-45 4 x 100/1000 SFP Port, Combo / RJ45 2 x 100/1000 SFP Port
<b>IP Version</b>	IPv4, IPv6
<b>Standard Compliance</b>	IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-TX IEEE 802.3z 1000Base-X Ethernet IEEE 802.3x Flow Control Capability ANSI/IEEE 802.3 Auto-negotiation IEEE 802.1q VLAN IEEE 802.1p Class of Service IEEE 802.1x Access Control IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree (MSTP) IEEE 802.3ad Port trunk with LACP IEEE 802.3az
<b>L2 Switch</b>	Generic VLAN Registration (GVRP) DHCP Relay with Option 82 IGMP v1/v2/v3 Snooping IGMP Querier / Proxy MLD v1/v2 Snooping
<b>LACP/Port Trunk</b>	Up to 13 Trunking Groups Up to 16 Ports for Each Group
<b>VLAN</b>	Support up to 4K VLANs Simultaneously (out of 4096 VLAN IDs) IEEE802.1Q Tag-based VLAN IEEE802.1v Protocol-based VLAN MAC-based VLAN Management VLAN Private VLAN Edge (PVE) Support Voice VLAN
<b>Security</b>	Support ACL (Access Control Lists) Support SSH / SSL / HTTPs RADIUS / TACACS+ Authentication Layer 2 Isolation Private VLAN Edge (PVE) Static Port Security IP Source Guard Storm Control
<b>QoS</b>	Support 8 Hardware Priority Queue Support Port-based, IPv4/IPv6 Precedence, Differentiated Services (DiffServ), DSCP and Trusted QoS Support 802.1p, Queue Assignment-based on DSCP and Class of Service (CoS) Support Rate Limiting Support Two Scheduling, WRR and Strict
<b>Management</b>	Support Dual Image Support SNMP v1, v2c, v3 Supports RMON Groups 1,2,3,9 (History, Statistics, Alarms, and Events) Support IEEE802.1AB, Link Layer Discovery Protocol (LLDP) with LLDP-MED extensions Support IPv4 and IPv6 Dual Stack Firmware Upgrade via HTTP / HTTPs / TFTP / Console port Support Porting Mirroring Support s-Flow Support UPnP IEEE802.3az Energy Efficient Ethernet Task Force Cable length detection: Reduces the power consumption for cables shorter
<b>Operating Temperature</b>	0 to 40°C
<b>Humidity</b>	10 to 90% (non-condensing)
<b>Power</b>	Voltage: 100 to 240VAC Frequency: 50 to 60Hz Consumption: 30W
<b>Dimension</b>	44 (H) x 442 (W) x 300 (D) mm
<b>Weight</b>	4.6kg