

- 8 Gigabit PoE+ capable ports with PoE power budget up to 140 watts (f/w v2.4)
- 4 Gigabit SFP/RJ-45 combo ports for uplink
- VLAN configuration based on 802.1q tag, MAC address, and protocol
- Auto Voice VLAN and Auto Surveillance VLAN to optimize call and video quality
- Secure Local Network by 802.1x Port Security, ACL, IP Source Guard and DHCP Snooping
- Support IPv6 with MLD Snooping, IPv6 ACL, and IPv6 DNS Resolver
- Authentication by local database, multiple RADIUS, and TACACS+ servers
- IEEE 802.3az (Energy-Efficient Ethernet) Compliant
- Support SNMP v1/v2c/v3, RMON, and Syslog for network monitoring
- Compliant with Switch Management of Vigor Router

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VigorSwitch P2121 is a layer 2 managed switch at a compact size, designed just for the small business network which has various devices. Its 802.3at/af-capable ports deliver power and network connectivity to up to 8 wireless AP, IP phones, and IP surveillance, reduce the need for power cable and adapters, and helps to lower the cost of installation. VigorSwitch P2121 provides L2-managed features for VLAN, port security, multicast, and management.

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#### VLAN OPTIONS

VigorSwitch P2121 can have VLAN based on 802.1q tags, protocols, and MAC addresses. It also provides Voice VLAN and Surveillance VLAN to identify the traffic from an IP phone or an IP camera automatically, without the need of specifying each of their MAC address. And it is capable of GVRP.

#### NETWORK SECURITY

VigorSwitch P2121 offers security features to prevent the local network being overloaded by superfluous traffic, including Storm Control and DoS Attack Prevention. And it helps to avoid IP conflicts on the network by including IP Source Guard, ARP inspection, DHCP Snooping. You can also add Access Control List to filter MAC, VLAN ID, IP, and protocols.

#### QUALITY OF SERVICE

To prioritize the critical traffic, VigorSwitch P2121 supports traffic classifying by 802.1p CoS, DSCP, and IP Precedence. VigorSwitch P2121 is especially ideal for a network which is going to deploy IP cameras and IP phones, with Auto Voice VLAN and Auto Surveillance VLAN feature, call and video traffic can be identified automatically and be assigned the desired class easily.

#### LINK AGGREGATION

There are 4 Gigabit Ethernet/SFP combo ports on VigorSwitch P2121 for the uplink, and it supports link aggregation by both static configuration and LACP (Link Aggregation Control Protocol), providing the network with higher throughput and link redundancy.

#### MANAGEMENT & MONITORING

For monitoring, VigorSwitch P2121 provides SNMP v1, v2c, and v3, RMON Group 1, 2, 3, and 9. It supports dual-image and can get configuration and firmware upgrade by HTTP, HTTPS, and TFTP. The Authentication of management service can be associated with external RADIUS or TACACS+ servers.

#### CENTRAL MANAGEMENT OF VIGOR ROUTER

VigorSwitch P2121 is compliant with Central Management feature of Vigor Router, which means it can be managed through the Vigor Router's management page, this allows the network administrator to configure, monitor, and maintain all the switches on the network easily from one single portal.



## IP Version

- IPv4
- IPv6

## Standard Compliance

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-T
- IEEE 802.3ab 1000Base-TX
- IEEE 802.3x Flow Control Capability
- ANSI/IEEE 802.3 Auto-negotiation
- IEEE 802.3ad Port trunk with LACP
- IEEE 802.1q VLAN
- IEEE 802.1p Class of Service
- IEEE 802.1d Spanning Tree
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.1s Multiple Spanning Tree
- IEEE 802.1x Port Based Network Access Control
- IEEE 802.1ab Link Layer Discovery Protocol (LLDP)
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.3af
- IEEE 802.3at

## QoS

- Support 8 Queues
- Class of Service
  - 802.1p CoS
  - DSCP
  - CoS-DSCP
  - IP Precedence
- Queue Setting
  - Weighted Round-Robin (WRR)
  - Strict Priority
- Rate Limit
  - Port-based (Ingress/Egress)

## Network

- Up to 8K MAC Address Table
  - Dynamic/Static Address
- Support Jumbo Frame 9KBytes
- Support STP/RSTP/MSTP
- Support SNTP

## Multicast

- Up to 256 Multicast Groups
- IGMP Snooping v2/v3 (BISS)
- IGMP Querier v2/v3 (BISS)
- MLD Snooping v1/v2
- Multicast VLAN Registration

## VLAN

- IEEE802.1Q Tag-based VLAN
- IEEE802.1v Protocol-based VLAN
- MAC-based VLAN (Dynamic)
- Management VLAN
- Support Voice VLAN (OUI Mode)
- Support Surveillance VLAN (OUI Mode)
- GVRP (General VLAN Registration Protocol)

## Security

- RADIUS / TACACS+ Authentication
  - Authentication for Management Service
- Support 802.1X / MAC Authentication
  - Port-based
  - Mac-based
- Static Port Security
- Support Port Isolation (Protected Port)
- Storm Control
  - Broadcast
  - Unknown Multicast
  - Unknown Unicast
- DoS Attack Prevention
- Dynamic ARP Inspection
- IP Source Guard
- DHCP Snooping with Option 82
- Loop Protection

## Link Aggregation

- Support 8 Link Aggregation Groups with Static & LACP types
  - Up to 8 Ports for Each Group
- Support Traffic Load Balancing

## PoE

- PoE Mode: Switch allocates sufficient power the PoE PD asked for, and dynamically distribute power to all devices.
- Status:
  - Current Used/Priority/Port Status
- Support per port PoE scheduling to turn on/off the PDs
- Auto-Checking
  - Check the link status of PDs
  - Reboot PDs if there is no response

## ACL

- Supports up to 512 entries
- Source and Destination MAC, VLAN ID or IP Address, Protocol, Port

## Management

- TR-069
- Support IEEE802.1AB, Link Layer Discovery Protocol (LLDP) with LLDP-MED Extensions
- Support SNMP v1, v2c, v3
- Simple Network Time Protocol
- Support RMON Groups 1,2,3,9\* (History, Statistics, Alarms, and Events) for Enhanced Traffic Management, Monitoring and Analysis
- Firmware Upgrade via HTTP/HTTPS/TFTP/TR-069\*
- Configuration Upgrade/Backup via HTTP/TFTP
- Support HTTP/HTTPS Web User Interface
- Support Dual Image
- System Reboot
- Support Command Line Interface (CLI) via Telnet/SSH
- CLI Could Get PoE Status
- Support DrayTek Switch Management
- Support EEE (Energy Efficient Ethernet)

## Diagnostics

- Port Mirroring
- Port-based Cable Test
- Ping
- Syslog
  - Violate/Non-Violate Memory
  - External Server

## Hardware Interface

- 8 x 10/100/1000Mbps Giga Ethernet with PoE+ PSE, RJ-45
- 4 x GbE Combo Ports, RJ45 + SFP
- 1 x Factory Reset Button
- 1 x Console Port, RJ45

## Environmental / Physical

- Power
  - Voltage: 100 ~ 240VAC
  - PoE Power Budget: 140 Watt (f/w v2.4)
- Temperature
  - Operating: 0 ~ 40 C°
  - Storage: -20 ~ 70 C°
- Humidity
  - Operating: 10 to 90 % RH (Non-condensing)
  - Storage: 5 to 90 % RH (Non-condensing)
- Dimension:
  - 330(W) x 230(D) x 44(H) mm

\*Firmware Upgradeable

