

VigorSwitch G2121/P2121

L2 Managed Gigabit Switch



VigorSwitch P2121/G2121 are designed for the small business network at a compact size that runs various network applications. They provide L2-managed features for VLAN, port security, multicast, and management to help businesses to improve network security and stability.

VigorSwitch G2121/P2121

8 x GbE

10/100/1000Mbps
Ethernet, RJ-45

4 x GbE/SFP

Gigabit Ethernet,
RJ-45/SFP Combo

24 Gbps

Switching Capacity

17.9 Mpps

Forwarding Rate

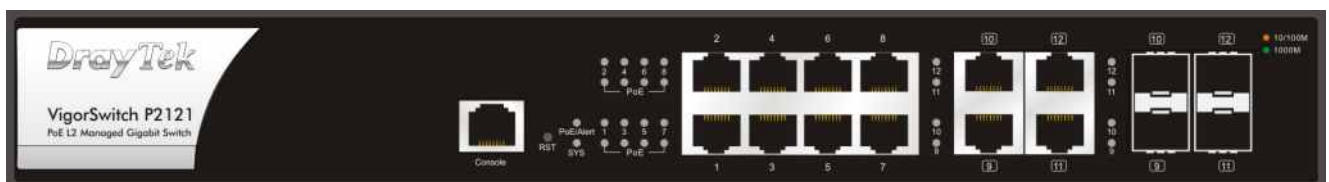
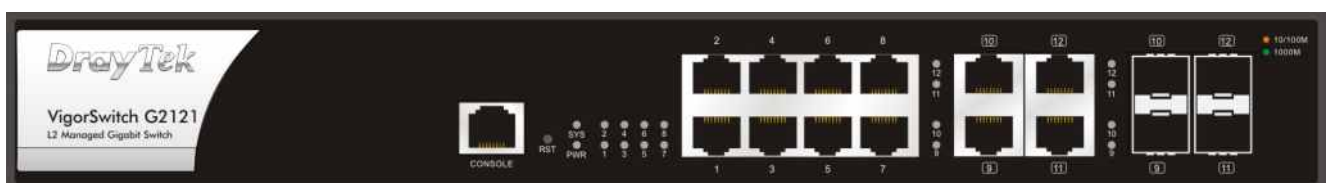
VigorSwitch P2121

8 x PoE GbE

PoE/PoE+ Gigabit
Ethernet Ports

140 watts

of PoE Power Budget



↑
CONSOLE port

← →
Gigabit LAN ports

← →
Combo UTP/SFP ports

Key Features



PoE (P2121)

Deliver power and data over one ethernet cable, turn on/off the PoE device periodically with PoE Schedule.



QoS (Quality of Service)

Improve the performance of critical traffic by prioritizing the traffic with CoS, DSCP, and IP Precedence tag.



PoE Device Check (P2121)

Enable Ping Watchdog for all PoE devices, if they lose their network connection, automatically restart them by a power cycle.



IPv6 Ready

VigorSwitch G2121/P2121 support IPv6 by offering MLD Snooping, IPv6 ACL, and IPv6 DNS Resolver.



Auto Surveillance & Voice VLAN

Recognize traffic from IP cameras and IP phones automatically and add CoS tag for QoS prioritization.



Web-Based GUI

Easily manage and monitor the network through the web-based console with graphics showing ports and hardware status.



IP Conflict Prevention

Improve network stability by avoiding IP conflicts caused by a misconfigured or malicious host.



Multiple Admin Accounts

Multiple Admin accounts with two levels of administrator privilege.



Access Control

VigorSwitch G2121/P2121 support ACL by IP/MAC and 802.1x port access control with RADIUS to filter unauthorized hosts.



Energy-Efficient Ethernet

Compliant with IEEE 802.3az to reduce power consumption.



ONVIF-Friendly

Recognize the ONVIF devices, display surveillance topology, provide UI for video streaming and device maintenance.



Central Switch Management

Set up VLAN easily from the router and get a centralized hierarchy view of the switches.

Specification

Interface

LAN Port	8x 10/100/1000Base-T Ethernet, RJ-45 4x Gigabit Ethernet/SFP Combo
Console Port	1 x Gigabit Ethernet, RJ-45
Button	1 x Factory Reset

PoE (P2121)

PoE Capable Ports	8
PoE Standards	PoE/PoE+ (802.3af/802.3at), Type mode A
PoE Power Budget	140 watts
Power Limit	•
Scheduled On/Off	•
Power Cycle on Port	Manual, Ping Watchdog

Capacity

Buffer Size	4.1 Mbit
Switching Capacity	24 Gbps
Forwarding Rate	17.9 Mpps (64 bytes)
MAC Address Table	8k
Jumbo Frame	Up to 9KB

Networking Standards

IP Version	IPv4, IPv6
Ethernet Standards	802.3af PoE (P2121) 802.3at PoE+ (P2121) 802.3 10Base-T 802.3u 100Base-T 802.3ab 1000Base-T 802.3x Flow Control 802.3 Auto-Negotiation 802.1q Tag-based VLAN 802.1p Class of Service 802.1ad QinQ 802.1d STP 802.1w RSTP 802.1s MSTP 802.3ad LACP 802.1x Port Access Control 802.1AB LLDP 802.3az EEE

VLAN

Max. Number of VLAN	256
VLAN Type	802.1q Tag-based MAC-based Protocol-Based Management VLAN Voice VLAN Surveillance VLAN
Port Isolation	•
GVRP	•
Q-in-Q	Basic

ONVIF Surveillance

Discovery	•
Surveillance Topology	•
Real-Time Video Streaming	•
ONVIF Device Maintenance	Device Info, Reset Factory Default, Time Settings, Reboot

Security

Access Control List	MAC, IPv4, IPv6
Storm Control	Broadcast, Unknown Multicast, Unknown Unicast
DoS Defense	•
802.1x Port Access Control	•
IP Source Guard	•
IP Conflict Prevention	•
Loop Protection	•
Dynamic ARP Inspection	•
DHCP Snooping with Option 82	•

QoS

Number of QoS Queues	8
Queue Scheduling	SPQ, WRR
CoS (Class of Service)	802.1p CoS, DSCP, CoS-DSCP, IP Precedence
Rate Limit & Shaping	•

Link Aggregation

Max. Number of Group	8
Max. Number of Member in Each Group	8
Type	Static, LACP
Traffic Load Balancing	MAC Address, IP/MAC Address

Multicast

IGMP Snooping	v2, v3 (BISS)
IGMP Querier	v2, v3 (BISS)
MLD Snooping	v1, v2
Max. Number of Multicast Group	256
Group Throttling	•
Group Filtering	•
MVR (Multicast VLAN Registration)	•

Management

Web Interface	HTTP, HTTPS
Command Line Interface	Telnet, SSH
OpenVPN Client	Certificate-based authentication
User Authentication	Local Database, RADIUS, TACACS+
SNMP	v1, v2c, v3
RMON Group	1, 2, 3, 9
LLDP	LLDP, LLDP-MED
Mail Alert	Port Status, Port Speed, System Restart, IP Conflict
Syslog	•
2-Level Admin Privilege	•
Multiple Admin Accounts	•
Managed by Vigor Router SWM	•
Managed by VigorConnect	•
Managed by VigorACS 2	• (Partially)
Config File Export/Import	•
Dual Image	•
SNTP (Simple Network Time Protocol)	•
Diagnostics Tools	Port Mirroring, Ping, Cable Test

Physical

Operating Temperature	0 to 45°C
Storage Temperature	-20 to 70°C
Operating Humidity	10 to 90% non-condensing
Storage Humidity	5 to 90% non-condensing
Dimension	330mm x 230mm x 44mm