

# DrayTek

## VigorSwitch Q2121x Series

### 2.5GbE L2+ Managed Switch



DrayTek VigorSwitch Q2121x series features 2.5GbE ports for LAN and 10G SFP+ for uplink/downlink. Together with WiFi 6 VigorAPs (e.g., VigorAP 1062C), Q2121x series brings the full WiFi 6 performance to LAN clients. Supporting advanced Layer 3 features, DHCP Server, and VLAN Routing. The PoE model PQ2121x has 8x 2.5G PoE/PoE+ ports with a power budget of 140 watts.



### Interface

LAN Port	8x 10/100/1000/2500Mbps Ethernet, RJ-45 4x 1000Mbps/10Gbps SFP+ slot
Console Port	1x RJ-45
Button	1x Factory Reset

### PoE (PQ2121x)

PoE Capable Ports	8x PoE/PoE+ (802.3af/at), up to 30W per port, Type mode A
PoE Power Budget	140 watts
Scheduled On/Off	•

### Capacity

Buffer Size	12 Mbit
Switching Capacity	120 Gbps
Forwarding Rate	89.28 Mpps (64 bytes)
MAC Address Table	16k
Jumbo Frame	Up to 10 KB
L3 Routing Table	•

### Layer 3 Features

Static Route	•
VLAN Route	•
DHCP Server	•

## Networking Standards

Ethernet Standards	802.3af PoE/802.3at PoE+ (PQ2121x) 802.3 10Base-T 802.3u 100Base-T 802.3ab 1000Base-T 802.3bz 2.5GBase-T 802.3ae 10GBase-X 802.3x Flow Control 802.3 Auto-Negotiation 802.1q Tag-based VLAN 802.1p Class of Service 802.1d STP 802.1w RSTP 802.1s MSTP 802.3ad LACP 802.1ad QinQ 802.1x Port Access Control 802.1AB LLDP 802.3az EEE
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## ONVIF Surveillance

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

## QoS

Number of QoS Queues	8
Queue Scheduling	SPQ, WRR
CoS (Class of Service)	CoS, DSCP, CoS-DSCP, IP Precedence
Rate Limiting	•

## Multicast

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

## Security

Authentication Server	RADIUS, TACACS+
802.1X/MAC Authentication	•
IP Source Guard	•
Traffic Control	DoS Defense, Storm Control
Dynamic ARP Inspection (DAI)	•
DHCP Snooping	•
IP Conflict Prevention	•
Loop Protection	•

## VLAN

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

## Link Aggregation

Max. Number of Group	8
Max. Number of Member in Each Group	8
Type	Static, LACP
Traffic Load Balancing	•

## Spanning Tree

STP	•
RSTP	•
MSTP	•

## Management

Local Service	HTTP, HTTPS, Telnet, SSH v2
Config Backup/Restore	•
Dual Image	•
2-Level Administration Privilege	•
Access Control	Access List
OpenVPN Client	•
sFlow	•
SNMP	v1, v2c, v3
RMON Group	1, 2, 3, 9
SNTP (Simple Network Time Protocol)	•
LLDP	•
LLDP-MED	•
Mail Alert	Port Status, Port Speed, System Restart, IP Conflict, Hardware Monitor, Device Check, ONVIF IP Cam Snapshot
VigorRouter Management (SWM)	•
VigorConnect Management	•
VigorACS Management	•

## 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