

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

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	•

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	•

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 802.1x 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	512
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