DrayTek

VigorSwitch FX2120

12-SFP+ Port Layer 2+ Managed Switch

DrayTek VigorSwitch FX2120 is a full 10 Gigabit switch with 12x SFP+ ports for uplink/downlink and 1x console port. It is well-suited for ISP and enterprise network with intensive data transmission. Supporting OpenFlow 1.3, it's also a future-proofed switch that can be operating in either traditional switch or SDN switch mode.

Equipped with Layer 3 features, including DHCP Server and VLAN Routing, VigorSwitch FX2120 improves local network sustainability and efficiency regardless of the gateway. Furthermore, with IP Conflict Detection & Prevention, ONVIF Surveillance, ping watchdog, and a lot more, this is the balanced switch that brings advanced features into mid-sized environments.

DC Power   10G SFP+   CONSOLE

Interface

LAN Port	12 x 1000Mbps/10GMbps SFP+ Ports
Console Port	1 x RJ-45
Button	1 x Factory Reset

Capacity

Buffer Size	16 Mbit
Switching Capacity	240 Gbps
Forwarding Rate	178.56 Mpps (64 bytes)
MAC Address Table	32k
Jumbo Frame	Up to 12KB
L3 Routing Table	12k static route + 12k prefix route

OpenFlow

Version	1.3
Table Size	1920

	OpenFlow
FX2120 (Standard)	
FX2120 (By project*)	●

*The OpenFlow functionality is project-based and must be activated by DrayTek HQ. Please contact your Sales for further inquiries.

Networking Standards

IP Version	IPv4, IPv6
Ethernet Standards	802.3ae 10Base-T
	802.3ab 1000Base-T
	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

VLAN

Max.Number of VLAN	256
VLAN Type	802.1q Tag-based
	MAC-based
	Protocol-Based
	Management VLAN
	Voice VLAN
	Surveillance VLAN
802.1x Guest 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

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	●

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 Detection	●
IP Conflict Prevention	●
Loop Protection	●
Dynamic ARP Inspection	●
DHCP Snooping with Option 82	●

Layer 3 Features

Static Route	●
VLAN Route	●
DHCP Server	●

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	●
MLD Snooping	v1, v2 (Basic)
Max. Number of Multicast Group	256
Group Throttling	●
Group Filtering	●
MVR (Multicast VLAN Registration)	●

AAA

Authentication Server	RADIUS, TACACS+
Port Authorization	●
Management Account	●
RADIUS Attribute Assignment	User Privilege, VLAN
Accounting	●
Multiple Server	●

Management

Web Interface	HTTP, HTTPS
Command Line Interface	Telnet, SSH v2
OpenVPN Client	Certificate-based authentication
User Authentication	Local Database, RADIUS, TACACS+
sFlow	●
SNMP	v1, v2c, v3
Private MIB	●
RMON Group	1, 2, 3, 9
LLDP	LLDP-MED, Media Endpoint Discovery Extension
Mail Alert	Port Status, Port Speed, System Restart, IP Conflict, Harware Monitor, Device Check, ONVIF Throughput Threshold
Syslog	●
2-Level Admin Privilege	●
Multiple Admin Accounts	●
Managed by VigorRouter SWM	●
Managed by VigorConnect	●
Managed by VigorACS	●
SDN	● Compliant Openflow v1.3
Config File Export/Import	●
SNTP	●
Diagnostics Tools	Port Mirroring, Ping, Cable Test

Physical

Operating Temperature	0 to 50°C
Storage Temperature	-20 to 70°C
Operating Humidity	10 to 90% non-condensing
Storage Humidity	5 to 90% non-condensing