Feature Matrix for FortiSwitchOS 7.2.2

The following table lists the FortiSwitch features in Release 7.2.2 that are supported on each series of FortiSwitch models. All features are available in Release 7.2.2, unless otherwise stated. Features marked with ✓ are supported by FortiSwitch units in standalone mode; features marked with 🔗 are supported in both standalone and in managed mode. Security Fabric features are available exclusively in managed mode.

Feature	GUI Supported	FSR-112D-POE	FSR-124D	1xxE, 1xxF	200 Series	4xxE	500 Series	1024D, 1024E, 1048E, T1024E	3032E
Security Fabric (exclusively in managed mode)									
Centralized configuration	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Centralized firmware management	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Automated detection and recommendations	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Syslog collection	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Device detection	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Network device detection	—	—	🔗	—	🔗	🔗	🔗	🔗	🔗
Block intra-VLAN traffic (See Note 7.)	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Host quarantine	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Integrated FortiGate network access control (NAC) function	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
NAC LAN segments (See Note 12.)	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
FortiGuard IoT identification	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Support of matching FortiClient EMS tags in NAC policies	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗

Feature	GUI Supported	FSR-112D-POE	FSR-124D	1xxE, 1xxF	200 Series	4xxE	500 Series	1024D, 1024E, 1048E, T1024E	3032E
Dynamic port policies	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
FortiSwitch VLANs over VXLAN	—	—	—	—	—	—	—	🔗 (1024E, 1048E, T1024E	🔗
FortiLink management over VXLAN	—	—	—	—	—	🔗	🔗	🔗	🔗
Management and Configuration									
CPLD software upgrade support for OS	—	—	—	—	—	—	—	1024D	—
Firmware image rotation (dual-firmware image support)	—	✓	✓	124F, 124F-POE, 124F-FPOE, 148E, 148E-POE, 148F, 148F-POE, 148F-FPOE	✓	✓	✓	✓	✓
HTTP REST APIs for configuration and monitoring	—	✓	✓	✓	✓	✓	✓	✓	✓
Support for switch SNMP OID	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
IP conflict detection and notification	✓	✓	✓	✓	✓	✓	✓	✓	✓
FortiLAN Cloud configuration	✓	✓	✓	✓	✓	✓	✓	✓	✓
FortiSwitch Manager configuration	✓	✓	✓	✓	✓	✓	✓	✓	✓
Auto topology	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Security and Visibility									
RADIUS for administrative authentication	—	✓	✓	✓	✓	✓	✓	✓	✓
TACACS+ for administrative authentication	—	✓	✓	✓	✓	✓	✓	✓	✓
802.1X port mode	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗

Feature	GUI Supported	FSR-112D-POE	FSR-124D	1xxE, 1xxF	200 Series	4xxE	500 Series	1024D, 1024E, 1048E, T1024E	3032E
802.1X MAC-based mode	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
802.1X MAC-based mode: Wake-on-LAN	—	✓	✓	✓	✓	✓	✓	✓	✓
User-based (802.1X) VLAN assignment	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
802.1X: MAB	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
open-auth mode	✓	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
allow-mac-move	—	—	✓	—	✓	✓	✓	✓	✓
802.1X/MAB priority	—	✓	✓	✓	✓	✓	✓	✓	✓
Support of the RADIUS accounting server	Partial	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Support of RADIUS CoA and disconnect messages	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
EAP pass-through	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
IP-MAC binding (IPv4)	✓	—	—	—	—	—	🔗	🔗	🔗
sFlow (IPv4)	✓	🔗	🔗	🔗 (124F, 148E, 148F)	🔗	🔗	🔗	🔗	🔗
Flow export (IPv4)	✓	—	🔗	—	🔗	🔗	🔗	🔗	🔗
ACL (IPv4)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multistage ACL (IPv4)	✓	—	—	—	—	—	✓	✓	✓
Multiple ingress ACLs (IPv4)	✓	—	✓	—	✓	✓	✓	✓	✓
Schedule for ACLs (IPv4)	—	—	✓	✓	✓	✓	✓	✓	✓
Dynamic ACLs (IPv4)	—	—	✓	✓	✓	✓	✓	✓	✓
ACL: color marking (IPv4)	✓	—	—	—	✓	✓	✓	✓	✓
DHCP snooping (See Note 16.)	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
DHCPv6 snooping	✓	—	—	—	✓	✓	✓	✓	✓

Feature	GUI Supported	FSR-112D-POE	FSR-124D	1xxE, 1xxF	200 Series	4xxE	500 Series	1024D, 1024E, 1048E, T1024E	3032E
DHCP-snooping static entries (IPv4)	—	✓	✓	✓	✓	✓	✓	✓	✓
Allowed DHCP server list	✓	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Flap guard	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
IP source guard (IPv4)	✓	—	🔗	—	🔗	🔗	—	—	—
IP source-guard violation log	—	—	✓	—	✓	✓	—	—	—
Dynamic ARP inspection (IPv4)	✓	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗
ARP timeout value	—	✓	✓	✓	✓	✓	✓	✓	✓
RMON group 1	—	✓	✓	✓	✓	✓	✓	✓	✓
Reliable syslog	—	✓	✓	✓	✓	✓	✓	✓	✓
Packet capture	🔗	—	🔗	🔗 (124F, 148E, 148F)	🔗	🔗	🔗	🔗	🔗
MACsec: PSK mode (See Note 6.)	—	—	—	—	—	—	✓	—	—
MACsec: Dynamic-CAK mode (See Note 6.)	—	—	—	—	—	—	✓	—	—
Layer 2									
Link aggregation group size (maximum number of ports) (See Note 2.)	✓	8	8	8	24/48	8		24/48	24/64
LAG min-max bundle	—	🔗	🔗	🔗	🔗	🔗		🔗	🔗
IPv6 RA guard	—	—	—	—	✓	✓		✓	✓
IGMP snooping	✓	🔗	🔗	🔗	🔗	🔗		🔗	🔗
IGMP proxy	✓	🔗	🔗	🔗	🔗	🔗		🔗	🔗
IGMP querier	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
MLD snooping	✓	—	—	—	—	—	✓	✓	✓
MLD proxy	✓	—	—	—	—	—	✓	✓	✓

Feature	GUI Supported	FSR-112D-POE	FSR-124D	1xxE, 1xxF	200 Series	4xxE	500 Series	1024D, 1024E, 1048E, T1024E	3032E
MLD querier	✓	—	—	—	—	—	✓	✓	✓
LLDP transmit	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
LLDP-MED	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
LLDP-MED: ELIN support	✓	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
MAC learning limit (See Note 3.)	—	🔗	🔗	🔗	🔗	🔗	🔗	—	—
Learning-limit violation log (See Note 3.)	✓	🔗	🔗	🔗	🔗	🔗	🔗	—	—
Learning-limit violation action	—	✓	✓	✓	✓	✓	✓	—	—
set mac-violation-timer	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Sticky MAC	✓	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Warning when the layer-2 table is getting full	—	—	✓	—	✓	✓	✓	—	—
MSTP instances	—	0-15	0-15	0-15	0-15	0-15	0-32	0-32	0-32
STP root guard	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
STP BPDU guard	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Rapid PVST interoperation	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
'forced-untagged' or 'force-tagged' setting on switch interfaces	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Private VLANs	✓	—	✓	—	✓	✓	✓	✓	✓
Multi-stage load balancing	—	—	—	—	—	—	—	✓	✓
Priority-based flow control	—	—	—	—	—	—	✓	✓	✓
Ingress pause metering	—	—	—	—	🔗	🔗	🔗	🔗 (1024D, 1048E)	—
Storm control	✓	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Per-port storm control	✓	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗

Feature	GUI Supported	FSR-112D-POE	FSR-124D	1xxE, 1xxF	200 Series	4xxE	500 Series	1024D, 1024E, 1048E, T1024E	3032E
Global burst-size control	✓	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
MAC/IP/protocol-based VLAN assignment	✓	✓	✓	✓	✓	✓	✓	✓	✓
Virtual wire	✓	—	✓	—	✓	✓	✓	✓	✓
Loop guard	✓	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Percentage rate control	🔗	—	🔗	—	🔗	🔗	🔗	🔗	🔗
VLAN stacking (QnQ)	✓	—	✓	—	✓	✓	✓	✓	✓
VLAN mapping (See Note 13.)	✓	✓	✓	124F, 124F-POE, 124F-FPOE, 148F, 148F-POE, 148F-FPOE	✓	✓	✓	✓	✓
SPAN	✓	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
RSPAN and ERSPAN (IPv4)	✓	🔗 (RSPAN)	🔗	—	🔗	🔗	🔗	🔗	🔗
Flow control	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
MRP	—	✓	✓	—	—	—	—	—	—
Layer 3									
VXLAN (See Note 15.)	—	—	—	—	—	—	—	✓ (1024E, 1048E, T1024E)	✓
VXLAN: STP virtual root	—	—	—	—	—	✓	✓	✓ (1024E, 1048E, T1024E)	—
RVI	—	—	—	—	—	448E, 448E-FPOE, 448E-POE, 424E-Fiber	✓	✓	✓
Link monitor (IPv4/IPv6)	✓	✓	✓	✓	✓	✓	✓	✓	✓

Feature	GUI Supported	FSR-112D-POE	FSR-124D	1xxE, 1xxF	200 Series	4xxE	500 Series	1024D, 1024E, 1048E, T1024E	3032E
Static routing (IPv4/IPv6) (See Note 9.)	✓	—	✓	✓	✓	✓	✓	✓	✓
Software-based routing only (IPv4/IPv6)	✓	✓	—	✓	—	—	—	—	—
Hardware-based routing (IPv4/IPv6)	✓	—	✓	—	✓	✓	✓	✓	✓
ECMP with hardware-based routing (IPv4/IPv6)	—	—	—	—	—	—	✓	✓	✓
Static BFD (IPv4/IPv6)	✓	✓	✓	✓	✓	✓	✓	✓	✓
uRPF	—	—	—	—	—	—	✓	✓	✓
DHCP relay (IPv4)	✓	—	✓	✓	✓	✓	✓	✓	✓
DHCP server (IPv4)	✓	—	—	—	—	✓	✓	✓	✓
Layer 3: Requires Advanced Features License									
Policy-based routing (IPv4)	—	—	—	—	✓	✓	✓	✓	✓
VRF (IPv4/IPv6)	✓	—	—	—	—	—	✓	✓	✓
OSPF (IPv4/IPv6)	✓	—	—	—	✓	✓	✓	✓	✓
BFD for OSPF (IPv4/IPv6)	✓	—	—	—	✓	✓	✓	✓	✓
OSPF database overflow protection (IPv4)	—	—	—	—	✓	✓	✓	✓	✓
OSPF graceful restart (IPv4, helper mode only)	—	—	—	—	✓	✓	✓	✓	✓
OSPF: VRF support (IPv4)	✓	—	—	—	—	—	✓	✓	✓
RIP (IPv4/IPv6)	✓	—	—	—	✓	✓	✓	✓	✓
BFD for RIP (IPv4/IPv6)	—	—	—	—	✓	✓	✓	✓	✓
VRRP (IPv4/IPv6)	✓	—	—	—	✓	✓	✓	✓	✓
BGP (IPv4/IPv6)	—	—	—	—	—	✓	✓	✓	✓
BFD for BGP (IPv4/IPv6)	—	—	—	—	—	✓	✓	✓	✓
IS-IS (IPv4/IPv6)	—	—	—	—	✓	✓	✓	✓	✓

Feature	GUI Supported	FSR-112D-POE	FSR-124D	1xxE, 1xxF	200 Series	4xxE	500 Series	1024D, 1024E, 1048E, T1024E	3032E
BFD for IS-IS (IPv4/IPv6)	—	—	—	—	✓	✓	✓	✓	✓
PIM (IPv4)	✓	—	—	—	—	—	✓	✓	✓
High Availability									
MCLAG (multichassis link aggregation)	Partial	—	—	—	🔗	🔗	🔗	🔗	🔗
STP supported in MCLAGs	—	—	—	—	🔗	🔗	🔗	🔗	🔗
IGMP snooping support in MCLAG	✓	—	—	—	🔗	🔗	🔗	🔗	🔗
Layer-3 (IPv4) routing in MCLAG	—	—	—	—	VRRP and static	VRRP and static	✓	✓	✓
Quality of Service									
802.1p support, including priority queuing trunk and WRED	✓	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗
QoS queue counters	—	—	🔗	—	🔗	🔗	🔗	🔗	🔗
Tail-drop policy	✓	—	✓	✓	✓	✓	✓	✓	✓
RED drop policy	✓	—	✓	—	✓	—	—	—	—
WRED drop policy	✓	—	—	—	—	✓	✓	✓	✓
Egress drop mode	—	—	—	—	—	—	✓	✓	✓
QoS marking (IPv4/IPv6)	—	—	✓	—	✓	✓	✓	✓	✓
Summary of configured queue mappings	🔗	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Egress priority tagging (IPv4/IPv6)	—	—	🔗	—	🔗	🔗	🔗	🔗	🔗
ECN (IPv4/IPv6)	✓	—	—	—	—	🔗	🔗	🔗	🔗
Real-time egress queue rates (See Note 11.)	—	—	—	148F, 148F-POE, 148F-FPOE	✓	✓	✓	✓	✓
Miscellaneous									

Feature	GUI Supported	FSR-112D-POE	FSR-124D	1xxE, 1xxF	200 Series	4xxE	500 Series	1024D, 1024E, 1048E, T1024E	3032E
PoE-pre-standard detection (See Note 1.)	—	🔗	🔗	🔗 (1xxE-POE)	🔗	🔗	🔗	—	—
PoE modes support: first come, first served or priority based (PoE models)	—	🔗	🔗	🔗 (1xxE-POE)	🔗	🔗	🔗	—	—
Perpetual PoE (See Notes 1 and 14.)	—	—	—	✓	—	—	—	—	—
PoE disconnection type	—	—	—	—	✓	✓	—	—	—
Split port (See Note 5.)	Partial	—	—	—	—	—	🔗	🔗 (1048E)	🔗
TDR (time-domain reflectometer)/cable diagnostics support	🔗	—	🔗	🔗	🔗	🔗	🔗	—	—
Auto module max speed detection and notification	✓	—	—	—	—	—	✓	✓	—
Monitor system temperature (threshold configuration and SNMP trap support) (See Note 10.)	—	✓	✓	✓	✓	✓	✓	✓	✓
MAC notification SNMP trap	—	✓	✓	✓	✓	✓	✓	✓	✓
Cut-through switching	—	—	—	—	—	—	—	1024D	—
Add CLI to show the details of port statistics	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Configuration of the QSFP low-power mode	—	—	—	—	—	—	✓	1024E, 1048E, T1024E	✓
Energy-efficient Ethernet	✓	✓	✓	✓	✓	✓	✓	—	—
PHY Forward Error Correction (See Note 4.)	—	—	—	—	—	—	—	1024E, 1048E, T1024E	✓
PTP transparent clock (IPv4/IPv6) (See Note 8.)	—	—	—	—	🔗	🔗	🔗	🔗 (1024E, 1048E, T1024E)	🔗
Alias commands	—	✓	✓	✓	✓	✓	✓	✓	✓
Automation stitches	—	✓	✓	✓	✓	✓	✓	✓	✓

Feature	GUI Supported	FSR-112D-POE	FSR-124D	1xxE, 1xxF	200 Series	4xxE	500 Series	1024D, 1024E, 1048E, T1024E	3032E
Multiple path traceroute	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wake-on-LAN packets	—	✓	✓	✓	✓	✓	✓	✓	✓
Save event log in flash memory	—	—	✓	—	✓	✓	✓	✓	✓

Notes

1. PoE features are applicable only to the model numbers with a POE or FPOE suffix.
2. The 24-port LAG is applicable to FS-524D, FS-524-FPOE, FS-1024D, and FS-3032D models. The 48-port LAG is applicable to FS-548D, FS-548-FPOE, and FS-1048D models.
3. The per-VLAN MAC learning limit is not supported on the FS-108E, FS-108E-POE, FS-108E-FPOE, FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-124F, FS-124F-POE, FS-124F-FPOE, FS-448D, FS-448D-POE, FS-448D-FPOE, FS-248E-POE, FS-248E-FPOE, and FS-248D models. The per-trunk MAC learning limit is not supported on the FS-448D, FS-448D-POE, FS-448D-FPOE, FS-248E-POE, FS-248E-FPOE, and FS-248D models.
4. Supported only in 100G mode (clause 91).
5. On the FS-3032E, you can split one port at the full base speed, split one port into four sub-ports of 25-Gbps each (100G QSFP only), or split one port into four sub-ports of 10-Gbps each (40G or 100G QSFP).
6. Supported on FS-5xxD 10G ports.
7. The maximum number of access VLANs on the FS-1xxE, FS-108F, FS-108F-POE, and FS-108F-FPOE models is 16; the maximum number of access VLANs on the FS-148F models is 32.
8. PTP is not supported on the FS-248E, FS-248E-POE, FS-248E-FPOE, FS-448D, FS-448D-POE, and FS-448D-FPOE models.
9. In managed mode, static routing is supported exclusively for system management and connectivity to Security Fabric connectors.
10. This feature is not supported by the FS-108E, FS-108E-POE, FS-108E-FPOE, FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E, FS-124F, and FS-224E models.
11. The FS-148F, FS-148F-POE, and FS-148F-FPOE models report the drop rate as 0 or +VE for a positive rate.
12. There are some limitations on LAN segments on the FSR-112D-POE, FS-108E, FS-108E-POE, FS-108E-FPOE, FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-148E, and FS-148E-POE models. See the *FortiLink Guide—FortiSwitch Devices Managed by FortiOS 7.2* for details.
13. Partial VLAN mapping is supported by the FS-124F, FS-124F-POE, FS-124F-FPOE, FS-148F, FS-148F-POE, FS-148F-FPOE, and FSR-112D-POE models. See the *FortiSwitchOS Administration Guide* 7.2.0 for details.

14. When the FortiSwitch unit is using `poe-port-power perpetual-fast`, the following BIOS versions are required: 4000014 or higher for FS-108E-POE, FS-108E-FPOE, FS-124E-POE, and FS-124E-FPOE; 4000011 or higher for FS-148E-POE; 4000006 or higher for FS-108F-FPOE; and 4000007 or higher for FS-108F-POE.
15. The FS-3032E model does not support multiple next hops on the same port.
16. The 1xx models allow you to enable DHCP snooping on a maximum of 25 VLANs.