**RISING CONNECTION**

# SDX

## Futureproof Enterprise-Grade Branch Router

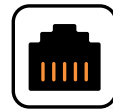**peplink**

RCM Approved



## At a Glance

**2x**
Ethernet WAN (Gigabit Ethernet)

**8x**
Ethernet LAN (Gigabit Ethernet)

**2x**
USB WAN Ports

**2x**
SFP+ Ports

**12** Gbps
Stateful Firewall Throughput

**600** Mbps
PepVPN Throughput (256-bit AES)

Upto **300**
VPN Peers

## Modular Enterprise Grade Router

As a member of our "X" series, the SDX offers extreme performance and future proof design at a practical price point. The SDX can handle the bandwidth requirements of any enterprise branch network. The SDX supports a FlexModule, enabling you to customise the router with your choice of ports, as well as instantly apply new technology as we release new modules.

## Future Proof Design

The SDX supports a FlexModule, enabling you to customise the router with your choice of ports, as well as instantly apply new technology as it will be released and available. Peplink team will build additional FlexModules as new technologies such as 5G emerge. Simply insert the new FlexModule and the SDX will become 5G ready; no need to purchase a new router.

## Enterprise Ready

Even without a FlexModule, the SDX is already prepared for any enterprise branch deployment. It comes equipped with 2x Ethernet WAN, 2x Gigabit Fiber WAN, and 2x USB WAN, enabling connectivity from multiple sources. The 8x integrated LAN ports can also power devices via PoE+.

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OLED | 2x USB 3.0 ports | 2x GE WAN

Power Input

1x MGMT 1x Console | 2x 10G SFP+ WAN | 8x GE PoE+ LAN

Power Switch

# Specifications

- **WAN Interface:** 2x 10G SFP+ Ports, 2x GE Ports, 2x USB 3.0 Ports

- **LAN Interface:** 8x GE Ports with PoE+ Output

- **Router Throughput:** 12 Gbps

- **PepVPN / SpeedFusion Throughput[1]:** No Encryption: 1 Gbps, 256-bit AES: 600 Mbps

- **Recommended Users:** 500-2000

- **Max. PepVPN/SpeedFusion Peers:** 300

- **Power Input:** AC Input 100V - 240V

- **PoE Output:** 8x 802.3at PoE+ Output

- **Power Consumption:** 80W System[2], 330W PoE+ Power Budget

- **Number of IPsec Tunnels:** 200

- **802.1q VLANs Supported:** 1024

- **Drop-In Mode:** Yes

- **Recommended PPTP/L2TP/OpenVPN Users :** 200

- **High Availability:** Yes

- **Dimensions:** 438 x 340 x 44 mm

- **Weight (No Modules):** 5.3 kg

- **Operating Temperature:** 0° – 40°C

- **Humidity:** 5% – 90% (non-condensing)

- **Certifications:** FCC, IC, CE

- **Warranty:** 1-Year Limited Warranty

- **SIM Options[3]:** Mini-SIM (2FF), Peplink eSIM, BYO eSIM (2 profiles), RemoteSIM from SIM Injector[4], FusionSIM[4]

- **Package Content:** Balance SDX, SDX Base Chassis, 1U 19" Rack-mount Chassis (ACW-752), L-mount Set (ACW-748), 1x Power Cord (ACW-614), Rubber Foot Pad set

1. by using 10G WAN fiber
2. 80W consumption for the main chassis, 20W consumption for the optional module.
3. Available with FlexModule Plus EXM-3LTEA-W, EXM-3LTEA-P, EXM-3LTEA-R, EXM-3LTEA-K, EXM-4LTEA-R, EXM-4LTEA-D, EXM-2GLTE-S, EXM-2X5GD, EXM-2X5GH, EXM-2X5GN.
4. Available with Firmware 8.4.0 or above and Hardware version 3 or above.

## Ordering Information

| Product Code | Model | Description |
|---|---|---|
| BPL-SDX | SDX | SDX Base Model, No Expansion module, 2x GE WAN Ports, 2x 10GE SFP+ WAN ports, 8x GE LAN ports, 2x USB WAN |

## Feature Add-on

| Product Code | Description |
|---|---|
| ACW-748 | Rack Mount Ears for Balance SDX |
| ACW-752 | Rack Mount Rails for Balance SDX |
| SFN-LC-500 | Enable up to 500 SpeedFusion Bonding peers for Balance SDX |
| LIC-VWAN | Activate 1x Virtual WAN on Balance SDX |
| LIC-2VWAN | Activate 2x Virtual WAN on Balance SDX |
| LIC-3VWAN | Activate 3x Virtual WAN on Balance SDX |
| ECP-BPL-SDX-1Y | EssentialCare+ (1-Year) for Balance SDX |
| ECP-BPL-SDX-2Y | EssentialCare+ (2-Year) for Balance SDX |
| ECP-BPL-SDX-4Y | EssentialCare+ (4-Year) for Balance SDX |
| SVL-494 | 1-Year EssentialCare for Balance SDX |
| SVL-503 | 2-Year EssentialCare for Balance SDX |

# Deep Dive

## Software

Peplink Balance Firmware

## WAN

Support for PPPoE, Static IP, DHCP
WAN Link Health Check
- PING
- DNS Lookup
- HTTP
Bandwidth Allowance Monitor
IPv6 Support
USB 4G/3G Modem Support
Support for Dynamic DNS services
- changeip.com
- dyndns.org
- tzo.com
- DNS-O-Matic
WAN Port Convertible into LAN Port

## LAN

DHCP Server for LAN Clients
Extended DHCP Option
DHCP Reservation
DNS Proxy for LAN Clients
VLAN on LAN Support

## Load Balancing

Intelligent Failover
Session Persistence
Per-Service Load Distribution
Multiple Algorithms
- Weighted
- Enforced
- Persistence
- Priority
- Overflow
- Least Used
- Lowest Latency

## Security

DoS Prevention
Stateful Firewall
Web Blocking

## Complete VPN Solution

PepVPN/SpeedFusion Bandwidth
Bonding
- Site-to-Site VPN
- Bandwidth Aggregation
- Hot Failover
- 256-bit AES Encryption
- Pre-shared Key Authentication
- Dynamic Routing
- X.509 Certificate Support
PPTP VPN Server
- RADIUS, LDAP Authentication
IPsec VPN (Network-to-Network)
- X.509 Certificate Support

## Advanced QoS

User Groups
- Bandwidth Reservation
- Individual Bandwidth Limit
Application Prioritisation
- By User Groups
- SIP, HTTPS, VPN QoS
- Custom Application QoS

## Networking

NAT and IP Forwarding
Static Routes
Port Forwarding
Many to One, One to One NAT
NAT Pool
SIP ALG, H.323 ALG
UPnP, NAT-PMP
WINS Server
BGP, OSPFv2 and RIPv2 Support

## AP Controller

Support for Peplink AP Series
Auto AP Discovery
Auto AP Firmware Management
AP Profile Configuration
Wi-Fi Usage Statistics

## Captive Portal

Support for Wired and Wireless
LAN Clients
Support RADIUS Authentication
Time and Usage Quotas on Open
Access Mode
Built-in Customisable Splash Page

## DNS

Built-in Authoritative DNS
Support for A, CNAME, NS, MX, PTR,
SOA, SRV, TXT records

## Device Management

Web Administrative Interface
Command Line Interface
InControl Cloud Management
Email Notification
Active Client and Session Lists
Bandwidth Usage Statistics
Syslog Service
SNMP v1, v2c and v3

## Power Requirement

Universal Input 100V - 240V AC