## RISING CONNECTION

# peplink

# SDX Pro

## Modular SD-WAN Router with Edge Computing Capability

**RCM Approved**



In addition to the power of the SDX, the SDX Pro offers greater flexibility and functionality. It has two FlexModule slots, enabling you to customise the device with different modules to suit any deployment. It supports edge computing so it can deliver websites, applications, and docker containers to connected devices.

## Ready for Anything

Insert a cellular module and a GE or SFP+ module to provide cellular failover for branch networks. Insert a SIM Injector module to dynamically allocate up to 56 SIM cards. New FlexModules are in development, making this device futureproof.


**4G/5G Module**

**SFP+ Module**

**GE Module With PoE+**

**SIM Injector**
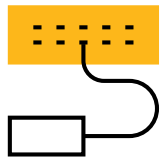
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# Modular System. Ensure Flexibility

## 4G/5G cellular WAN

Add 4G/5G backup to enterprise networks. Add multiple cellular FlexModules for fast and unbreakable connectivity anywhere.
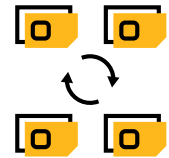
## 8x copper WAN/LAN

Connect PoE-enabled modems on the WAN, or connect PoE devices such as cameras, IP phones, and Wi-Fi APs on the LAN.

## 4x fiber WAN/LAN

Build an all-Fiber network by connecting Fiber WANs and LAN Switches.

## 56x SIM Capacity

Virtually deliver SIM cards from the FlexModule to Peplink cellular routers anywhere. Supports up to 56 SIM cards.

# Ready-Built Infrastructure

Your SDX Pro comes ready to connect to the SpeedFusion Cloud: a global network of secure endpoints with unique capabilities. Use the SpeedFusion Cloud as an unbreakable worldwide VPN, saving setup and maintenance costs.

24Gbps

# High Throughput

The SDX Pro has enough throughput to handle any high-bandwidth enterprise branch or mobile deployment.

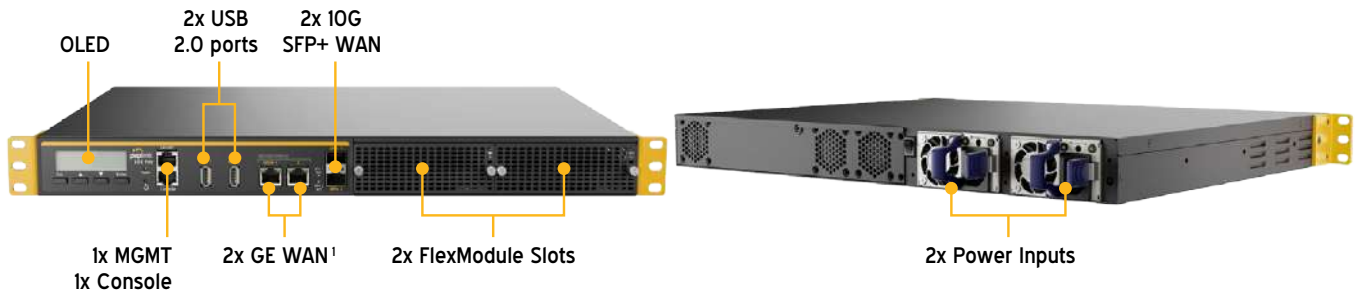Websites    Virtual Machines    Docker Containers    Applications
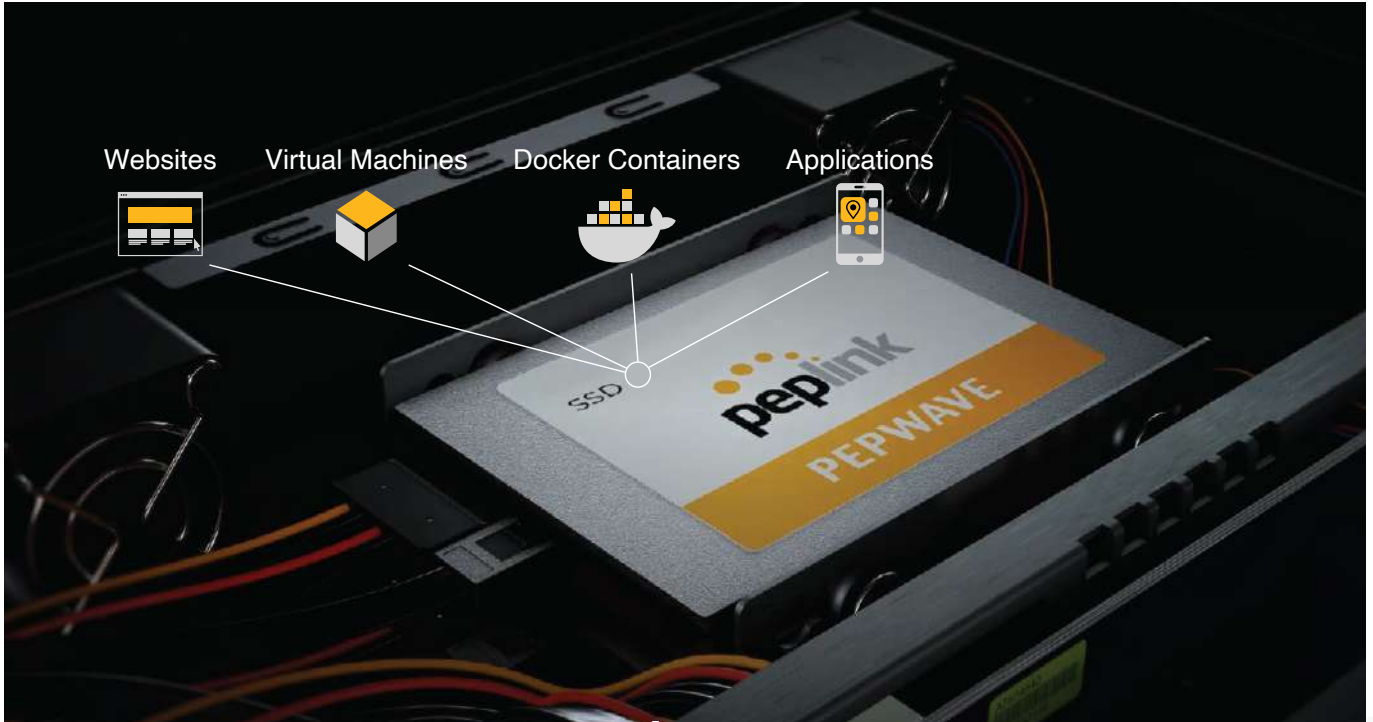
## Edge Computing Capable

The SDX Pro is a one-box hosting solution that can deliver Docker containers, applications, and websites to its local network. By hosting resources near the network edge, you can reduce latency and make applications more responsive.
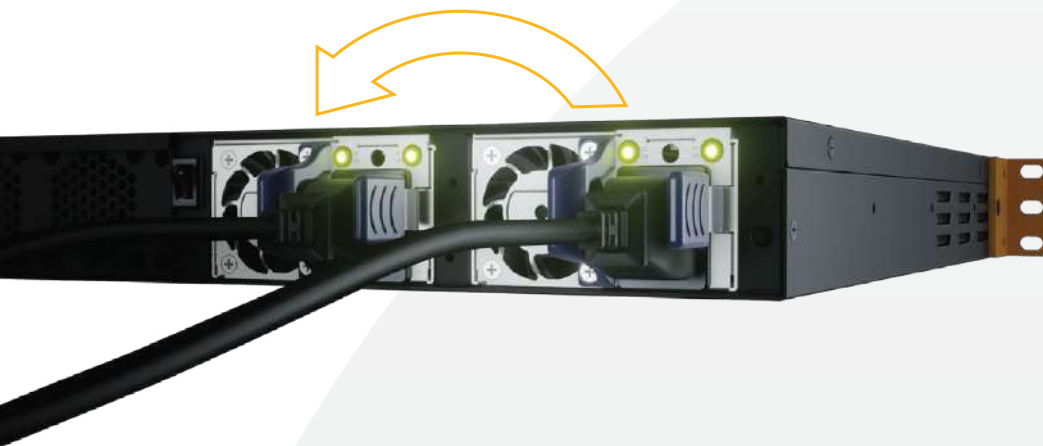
## Uninterruptible Power

The SDX Pro is equipped with two power inputs and two hot-swappable power supplies. Only one of each is needed to function, ensuring continuous power delivery even if acable gets disconnected or if a power supply drops out for any reason.

OLED
2x USB
2.0 ports
2x 10G
SFP+ WAN

1x MGMT
1x Console
2x GE WAN[1]
2x FlexModule Slots

2x Power Inputs

# Specifications

- **WAN Interface:** 2x 10G SFP + Ports, 2x GE Ports, 2x USB 2.0 Ports for Secure OOBM, 2x FlexModules (Optional)

- **Router Throughput:** 24 Gbps

- **PepVPN / SpeedFusion Throughput[2]:** No Encryption: 1 Gbps, 256-bit AES: 600 Mbps

- **Recommended Users:** 500-2000

- **Max. PepVPN/SpeedFusion Peers:** 800

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

- **Power Consumption:** 140W System[3], 420W PoE+ Power Budget

- **Number of IPsec Tunnels:** 500

- **802.1q VLANs Supported:** 1024

- **Drop-In Mode:** Yes

- **Maximum Number of APs Supported:** 2000

- **High Availability:** Yes

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

- **Weight (No Modules):** 7.2 kg

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

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

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

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

- **SIM Options[4]:** Mini-SIM (2FF), Peplink eSIM, BYO eSIM (2 profiles)[5], RemoteSIM from SIM Injector, FusionSIM

- **Package Content:** Balance SDX Pro, SDX Pro Base Chassis, 1U 19" Rack-mount Chassis (ACW-752), L-mount Set (ACW-750), 2x Power Cord (ACW-614), Rubber Foot Pad set

1. WAN ports are configured as a LAN ports by default, configuration is changeable on the Web Admin
2. by using 10G WAN fiber
3. 140W consumption for the main chassis, 20W consumption for the optional module.
4. 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.
5. Available with Firmware 8.4.0 or above.

## Ordering Information

| Product Code | Description |
|---|---|
| BPL-SDX-PRO-M2 | SDX Pro Base Model, No Expansion module, 500GB SSD, 2x GE WAN/LAN Ports, 2x 10GE SFP+ WAN/LAN ports, 2x USB WAN |
| BPL-SDX-PRO-M2-1TB | SDX Pro Base Model, No Expansion module, 1TB SSD, 2x GE WAN/LAN Ports, 2x 10GE SFP+ WAN/LAN ports, 2x USB WAN |
| BPL-SDX-PRO-M2-2TB | SDX Pro Base Model, No Expansion module, 2TB SSD, 2x GE WAN/LAN Ports, 2x 10GE SFP+ WAN/LAN ports, 2x USB WAN |

## Feature Add-on

| Product Code | Description |
|---|---|
| LIC-VWAN | Activate 1x Virtual WAN on Balance SDX Pro |
| LIC-2VWAN | Activate 2x Virtual WAN on Balance SDX Pro |
| LIC-3VWAN | Activate 3x Virtual WAN on Balance SDX Pro |
| LIC-OPN-WAN | OpenVPN WAN License |
| ECP-BPL-SDX-PRO-M2-1Y | EssentialCare+ (1-Year) for Balance SDX Pro |
| ECP-BPL-SDX-PRO-M2-2Y | EssentialCare+ (2-Year) for Balance SDX Pro |
| ECP-BPL-SDX-PRO-M2-4Y | EssentialCare+ (4-Year) for Balance SDX Pro |
| SVL-BPL-SDX-PRO-M2-1Y | 1-Year EssentialCare for Balance SDX Pro |
| SVL-BPL-SDX-PRO-M2-2Y | 2-Year EssentialCare for Balance SDX Pro |

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## 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
- no-ip.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
Support LDAP 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

### Edge Computing

ContentHub
- Video caching
- iTunes
- iTunes U
- TED.com
- Content Caching
- HTML
- JavaScript
- Image
- Flash Applications
Docker
Kernel-based Virtual Machine (KVM)