peplink | SDX Pro

Modular SD-WAN Router with Edge Computing Capability

2x FlexModules for Versatility and Futureproofing

Up to 8x Cellular Connections for Unmatchable Connectivity

24Gbps Throughput for Enterprise Deployments

Host Virtual Machines and Docker Containers

Redundant Power Supplies for Uninterruptible Power

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

Ready-Built Infrastructure

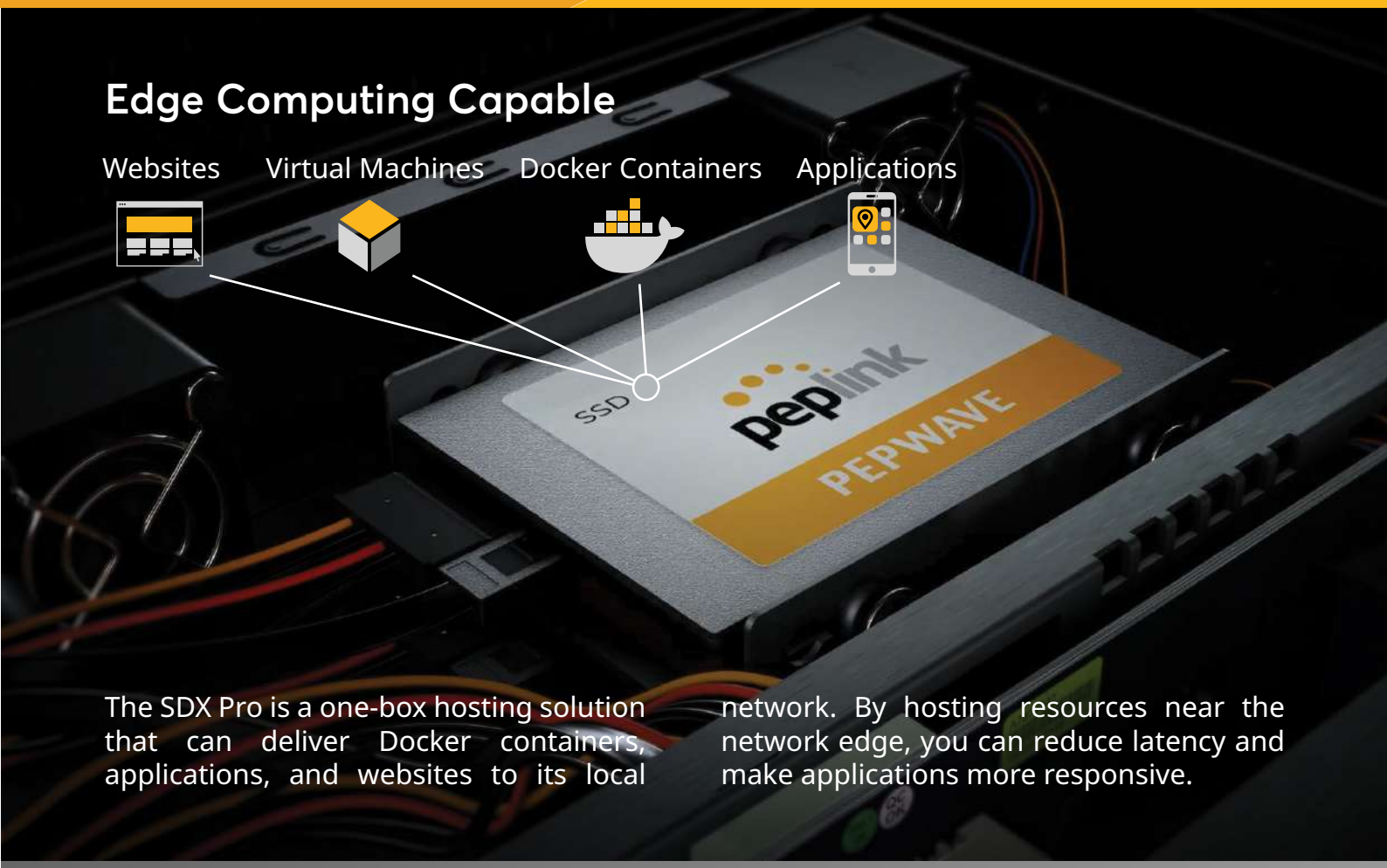
Your SDX Pro comes ready to connect to the SpeedFusion Cloud: a global network of secure endpoints with unique capabilities. Use the SpeedFusion Cloud as an unbreakable worldwide VPN, saving setup and maintenance costs.

High Throughput

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

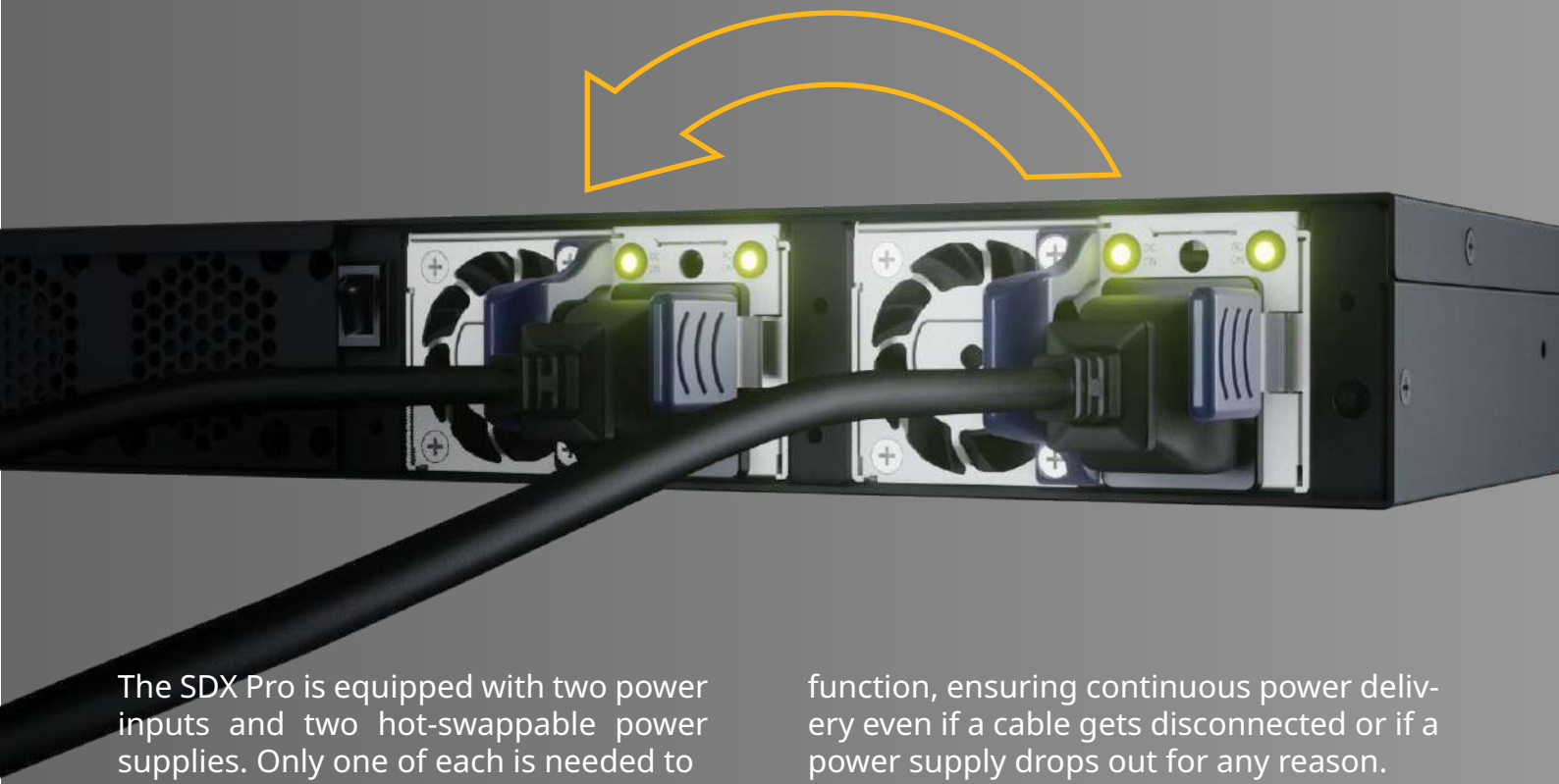
Edge Computing Capable

Websites Virtual Machines Docker Containers Applications



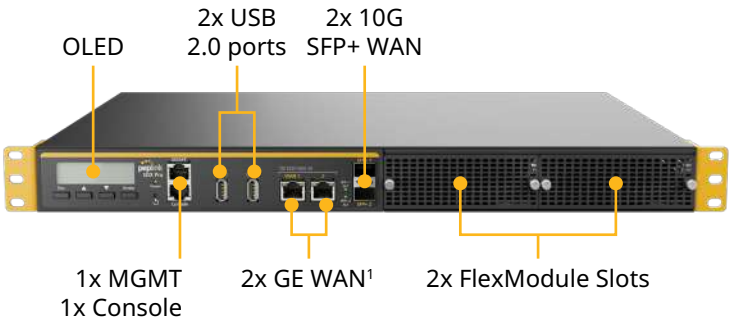
The SDX Pro is a one-box hosting solution that can deliver Docker containers, applications, and websites to its local network. By hosting resources near the network edge, you can reduce latency and make applications more responsive.

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 a cable gets disconnected or if a power supply drops out for any reason.

SDX Pro



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
SpeedFusion VPN Throughput[2]	**No Encryption:** 1Gbps **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 Availablity	Yes
Dimensions	17.2 x 13.3 x 1.7 inches / 438 x 340 x 44 mm
Weight (No Modules)	15.9 pounds / 7.2 kg
Operating Temperature	32° – 104°F / 0° – 40°C
Humidity	5% – 90% (non-condensing)
Certifications	FCC, IC, CE
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
SIM Options [4]	Mini-SIM (2FF) Peplink eSIM BYO eSIM (2 profiles) [5] RemoteSIM from SIM Injector FusionSIM
Warranty	1-Year Limited Warranty

Ordering Information

Product Code	Descriptions
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

[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.

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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 Prioritization
- 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

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

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)

AP Controller
Support for Pepwave 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 Customizable Splash Page

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

* Only valid for customers who have purchased Peplink Balance devices directly from Peplink. All specifications are subject to change without notice.

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