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Specifications

WAN Interface	2x 10G SFP + Ports 2x GE Ports 2x USB 3.0 Ports 1x Expansion Module (Option)	Recommended PPTP/L2TP/OpenVPN Users	200
LAN Interface	8x GE Ports with PoE+Output	Maximum Number of APs Supported	250
Router Throughput	12 Gbps	High Availability	Yes
PepVPN / SpeedFusion Throughput#	No Encryption: 1Gbps 256-bit AES: 600 Mbps	Dimensions	17.2 x 13.3 x 1.7 inches 438 x 340 x 44 mm
Recommended Users	500-2000	Weight (No Modules)	11.7 pounds 5.3 kg
Max PepVPN/SpeedFusion Peers	300	Operating Temperature	32° – 104°F (0° – 40°C)
Power Input	AC Input 100V - 240V	Humidity	5% – 90% (non-condensing)
PoE Output	8x 802.3at PoE+ Output	Certifications	FCC, IC, CE
Power Consumption	80W System* , 330W PoE+ Power Budget	Warranty	1-Year Limited Warranty
Number of IPsec Tunnels	200	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
802.1q VLANs Supported	1024		
Drop-In Mode	Yes		

* 80W consumption for the main chassis, 20W consumption for the optional module.
by using 10G WAN fiber

Ordering information

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

Accessories

Product Code	Description
ACW-748	Rack Mount Ears for Balance SDX
ACW-752	Rack Mount Rails for Balance SDX

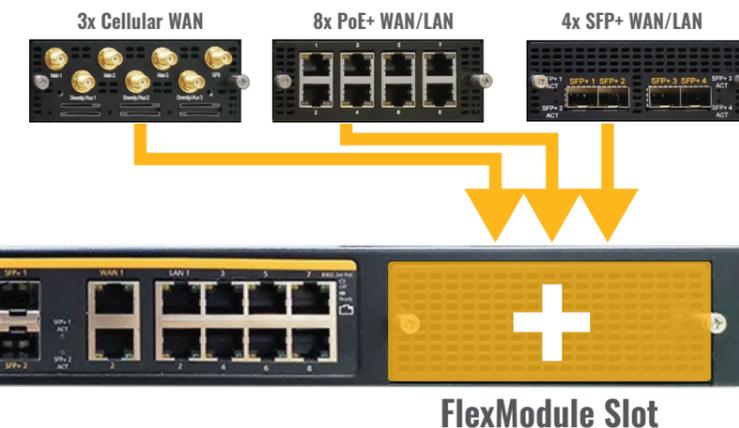
Extreme Performance



As a member of our "X" series, the SDX offers extreme performance and futureproof design at a practical price point. With 12Gbps of throughput, the SDX can handle the bandwidth requirements of any enterprise branch network. The SDX also supports a FlexModule, enabling you to customize the router with your choice of ports, as well as instantly apply new technology as we release new modules.



Investment Protection - Futureproof Design



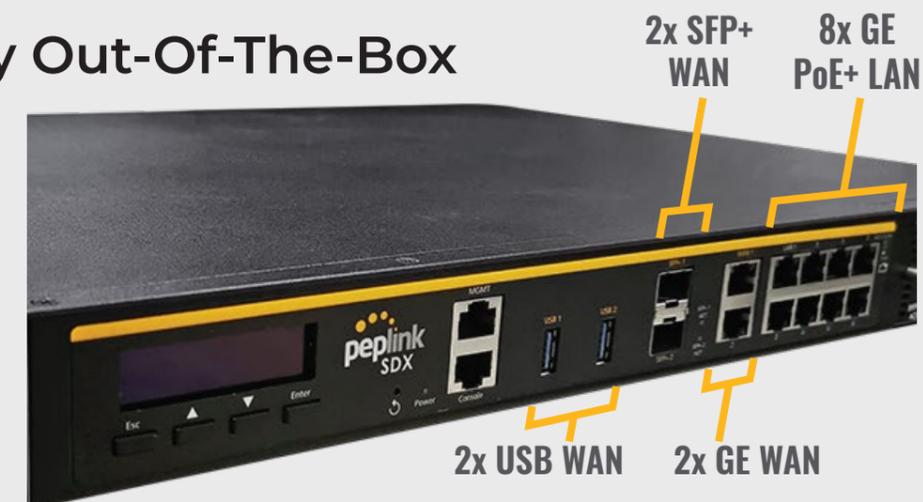
The SDX has a slot for a FlexModule, which is available in three versions:

- **3x cellular WAN:** Combine cellular links for wireless SD-WAN backup to the primary connection. 5G FlexModule coming soon!
- **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.

We 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 Out-Of-The-Box

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 1x USB WAN, enabling connectivity from multiple sources. The 8x integrated LAN ports can also power devices via PoE+. These integrated ports provide a baseline level of connectivity on which users can add FlexModules to increase the capabilities of the SDX. This is also useful for scaling deployments where growth is anticipated.



Unbreakable Cloud Connectivity



Whether via datacenter or Azure/AWS cloud, businesses now access their vital ERP, CRM, and POS applications online. To ensure absolute business continuity, the Balance SDX combines Ethernet and SFP+ WAN into an unbreakable SpeedFusion VPN. If any individual line loses connectivity, others will take its place without skipping a beat.

The Balance SDX supports one FlexModule. By inserting a cellular FlexModule, you can add up to 3x cellular connections to your SpeedFusion VPN. Cellular connectivity creates additional redundancy for your business applications.

With the SDX FlexModule slot, you can rest assured that your investment will remain up-to-date as new technologies emerge: we are currently developing 5G FlexModules, which will instantly add 5G capability to your SDX.

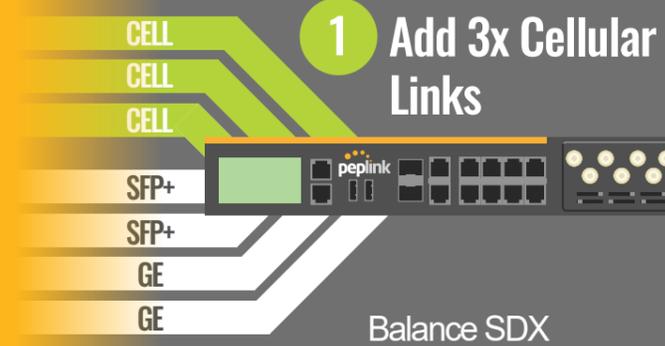
3 Unbreakable Access to Cloud Applications

2 Bandwidth of All Connections Combined

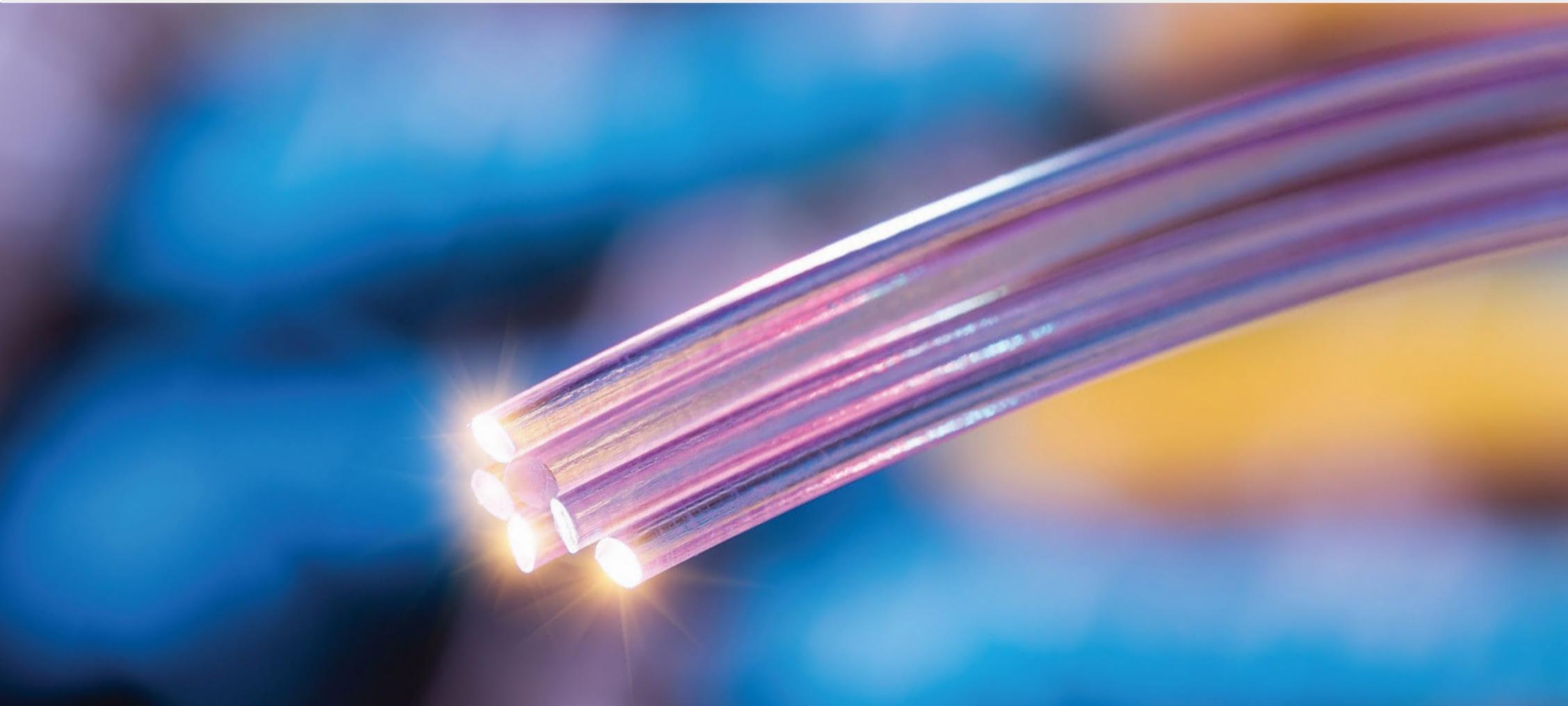
1 Add 3x Cellular Links



SpeedFusion SD-WAN

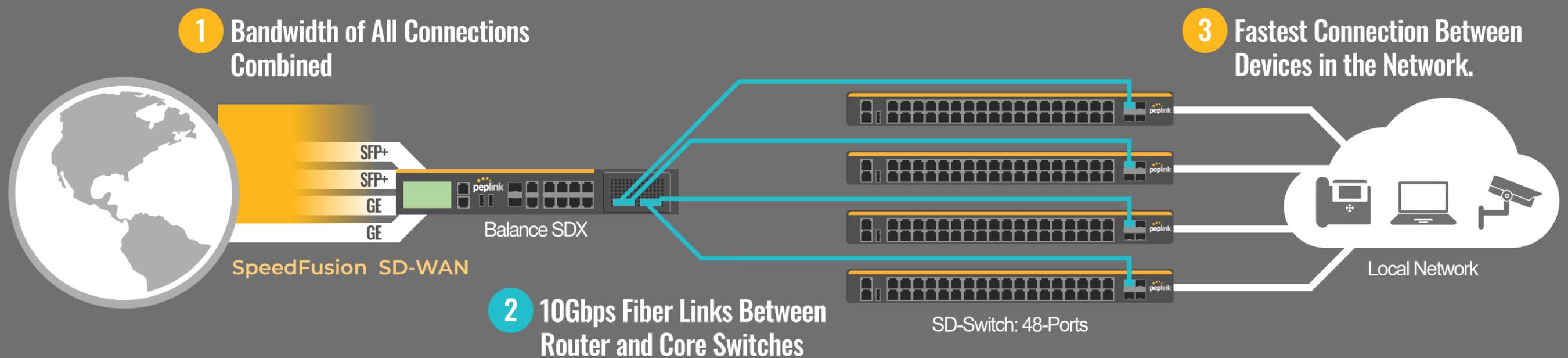


End-to-End Fiber Network for Branch Offices



A chain is only as strong as its weakest link. Likewise, the speed of a local network is determined by its slowest connection. Insert a fiber FlexModule onto your SDX to create an all-fiber local network. Use the SDX's built-in WAN ports to combine SFP+ and Ethernet links into a super-fast SpeedFusion VPN connection. Then use the fiber FlexModule to connect 4x 48-port fiber switches to the SDX. This creates a full fiber local network with optimal connectivity between each client.

The FlexModule is interchangeable between the SDX, EPX, and some of our upcoming modular platforms. This enables enterprises to use different modules to customize the devices to fit their unique network requirements.





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 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

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
Time and Usage Quotas on Open Access
Mode

- Built-in Customizable 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

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