



EPX

Extreme Performance SD-WAN Platform



Introducing the industry's highest performing SD-WAN platform. The EPX is a rapidly deployable, powerful, and versatile SD-WAN router that connects a wide range of WAN options from LTE-A, 5G, satellite modems, to fixed line networks. At a 19" 2U rack mountable form factor, it can combine up to 24x cellular connections for absolute connection reliability.

At a Glance



8-56x*

Ethernet WAN (Gigabit Ethernet)



8-56x*

Ethernet LAN (Gigabit Ethernet)



4-28x*

SFP+ Ports



30 Gbps

Stateful Firewall Throughput



4 Gbps

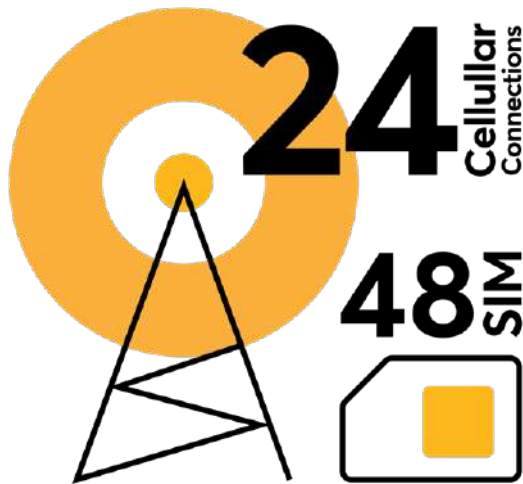
PepVPN Throughput (256-bit AES)



Upto **4000**

VPN Peers

* With Expansion Module: EXM-4F, EXM-8C



Future Proof Design

The EPX supports FlexModules, enabling you to customise the platform 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 EPX will become 5G ready; no need to purchase a new device.

Gigabit Bandwidth On-The-Go

In its cellular configuration, the EPX is the most powerful wireless SD-WAN router in the industry. It can combine the bandwidth of up to 24 connections*, supporting 48 SIM cards* and providing gigabits of bandwidth on-the-go.

Use Cases



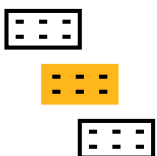
Combined Public & Commercial Safety LTE

Equipped with an EPX, mobile headquarters can combine private LTE, commercial LTE & satellite links to form fast and unbreakable VPN connection both to mobile HQ and to patrol vehicles. With this configuration, patrol vehicles benefit from increased cellular coverage. Even if they are outside the range of one cellular provider, they will still be within the range of others.



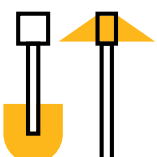
SD-WAN Backhaul for ISP

Whether providing Internet service with a SLA, or building a video surveillance streaming network, ensuring service continuity is crucial. The EPX enables service providers to build a flexible SD-WAN backhaul to the main network, incorporating as many Ethernet, Fiber, and cellular links as needed to provide fast and solid connectivity.



Cellular Backup for Regional Offices

With its modular architecture, the EX enables regional offices to add WAN connections of any type as they grow in size. With the ability to add cellular modules, the EX also provides as much cellular connectivity as needed for the company network to operate at full speed even if land lines lose connectivity.



Work Sites and Events

With the EPX, temporary sites could get connected in minutes. The EX can combine up to 18 cellular connections for high-definition video streaming and high-volume data transfers. The EX can also host docker containers, giving you the ability to host your own custom apps onsite to simplify management.



EPX-M8

Specifications

- **WAN Interface:** 4-28x 10G SFP+ Ports, 8-56x GE Ports
- **LAN Interface:** 8-56x GE Ports with PoE+ Output
- **Router Throughput:** 30 Gbps
- **PepVPN / SpeedFusion Throughput:**
No Encryption: 4 Gbps, 256-bit AES: 4 Gbps
- **Recommended Users:** 5000-20000+
- **Max. PepVPN/SpeedFusion Peers:** 4000
- **Power Input:** AC Input 100V - 240V
- **PoE Output:** 8x 802.3at PoE+ Output
- **Power Consumption:** 300W System and module, 330W PoE+ Power Budget
- **Number of IPsec Tunnels:** 1000
- **802.1q VLANs Supported:** 1024
- **Drop-In Mode:** Yes
- **Recommended PPTP/L2TP/OpenVPN Users :** 1000
- **Maximum Number of APs Supported:** 2000
- **High Availability:** Yes
- **Dimensions:** 480 x 550 x 90 mm
- **Weight (No Modules):** 14.2 kg
- **Operating Temperature:** 0° – 40°C
- **Humidity:** 5% – 90% (non-condensing)
- **Certifications:** FCC, IC, CE
EN 50155: Railway Applications EN 61373:1999
IEC 61373:1999 : Shock and Vibration Resistance
EN 50121: Rolling Stock EMC, Signalling and Telecom Apparatus
- **Warranty:** 1-Year Limited Warranty
- **SIM Options:** Mini-SIM (2FF), Peplink eSIM, BYO eSIM (2 profiles), RemoteSIM from SIM Injector, FusionSIM
- **Package Content:** EPX Main Chassis with OLED module Rack mounting kit with brackets and slide

1 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.



Ordering Information

Product Code	Description
EPX-M8	EPX Base Model, 1x OLED Module
EXM-LCDT	Expansion Module with 1TB SSD, Features Content Hub, Docker Support and OLED Controls (Replaces existing OLED module)
EPX-LC-MFA	License Key to enable MediaFast with Content Hub & Docker (requires own disk drive to mount to the OLED Module)

Feature Add-on

Product Code	Description
LIC-VWAN	Activate 1x Virtual WAN on EPX
LIC-2VWAN	Activate 2x Virtual WAN on EPX
LIC-3VWAN	Activate 3x Virtual WAN on EPX
EPX-LC-EC	License Key to enable MediaFast, Docker, Python and KVM for edge computing. (Requires own disk drive to mount to the LCD Module).
LIC-OPN-WAN	OpenVPN WAN License
ECP-EPX-M8-1Y	EssentialCare+ (1-Year) for EPX (Main Chassis)
ECP-EPX-M8-2Y	EssentialCare+ (2-Year) for EPX (Main Chassis)
ECP-EPX-M8-4Y	EssentialCare+ (4-Year) for EPX (Main Chassis)
SVL-506	1-Year EssentialCare for EPX (Main Chassis)
SVL-508	2-Year EssentialCare for EPX (Main Chassis)



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