Tech Specs | Enterprise Router • Balance 310X

Quick Look

Number of Ethernet WAN port
2 (GE)
Number of Ethernet LAN port
9 (GE)
Router Throughput
2.5Gbps
SpeedFusion VPN Throughput (No Encryption)
600Mbps
SpeedFusion VPN Throughput (256-bit AES)
500Mbps
Number of Cellular Modem
1

Interfaces

Maximum Ethernet WAN / LAN port configuration
2 WAN with 9 LAN
SFP LAN / WAN
No
Serial Interface
No
Wi-Fi AP
No
Wi-Fi WAN
No
USB WAN
Yes (2x USB)
Module Expansion
Yes (Expansion Module for Balance 310X)

Performance

Maximum Number of AP Supported
50
Number of Recommended Users
50–500

Wireless details

Cellular Modem Category options
1x CAT-12, 1x CAT-20, 1x 5G
5G support
Yes
SIM Slots
2
SIM Card Size
Mini-SIM (2FF)
Wi-Fi Radio
No
Wi-Fi Antenna Transmit Power (2.4GHz, single chain)
No
Wi-Fi Antenna Transmit Power (5GHz, single chain)
No
Multiple SSIDs
No
GPS
Yes
RemoteSIM (used in SIM Injector)
Yes
FusionSIM
Yes
Peplink eSIM Data Plans
Yes (HW4+)
[1]
[1] Require Firmware 8.3.0 or above and supported for selected SKU.
BYO eSIM
Yes (HW4+)
[2]
[2] Require Firmware 8.4.0 or above and supported for selected SKU.

Features

SpeedFusion Hot Failover
Yes
SpeedFusion Smoothing
Yes
SpeedFusion Bandwidth Bonding
Yes
SpeedFusion Connect
Yes
[3]
[3] CarePlan subscription includes 1TB/year complimentary SpeedFusion Connect Usage data.
SpeedFusion Relay Mode (Server)
Yes
Drop-In Mode
Yes
High Availability
Yes
Peplink AP Series Management
Yes
Remote AP & Multiple Config Profiles Management
Yes
WAN as LAN

No

LAN Bypass

No

InTouch

Yes (HW4+)

Virtual WAN

Yes

[4]

[4] Up to 10 Virtual WAN if purchasing Virtual WAN Activation Licence.

Synergy Mode (Controller)

Yes (HW4+)

Synergized Device

Yes

Application and Web Blocking

Yes

Web Content Filtering

Full

IP Passthrough

Yes

IPv6

Yes

x.509 Certificate

Yes

GPIO

No

Captive Portal

Yes

Ignition Sensing

No

Netflow support

Yes

LACP (802.3ad) NIC Bonding

Yes

[5]

[5] Require Firmware 8.4.1 or above.

Internal Storage for Edge Computing

No

External Storage via USB Port

Yes

[6]

[6] Require Firmware 8.4.0 or above. Support Docker.

Dead Reckoning

No

Core Functionality

Inter-VLAN Routing

Yes

802.1q VLANs Supported

1024

Port-Based VLAN

Yes

Load Balancing & Failover

Yes

Load Balancing Algorithms

8

Inbound Load Balancing

Yes

InControl 2 Cloud Management

Yes

InControl GPS Fleet Management

Yes

Advanced QoS Functionality

Bandwidth Usage Monitoring
Yes
QoS for VoIP and E-Commerce
Yes
User Groups Bandwidth Control
Yes

VPN Functionality

SpeedFusion VPN
Yes
Number of SpeedFusion VPN Peers
3 or 30
[7]
[7] PepVPN/SpeedFusion Peers license, it can change the maximum number of PepVPN/SpeedFusion peer.Balance 310X,SFN-LC-30.
Up to 30 PepVPN/SpeedFusion peers and SpeedFusion Bonding License Key.
IPsec VPN
Yes
Number of IPsec Tunnels
40
L2TP VPN / Open VPN / PPTP VPN Server
Yes
Maximum PPTP / L2TP / OpenVPN Users
50
Remote RADIUS / LDAP authentication in Remote User Access
Yes
Number of OpenVPN Tunnel (Site to Site)
5
Number of GRE Tunnel (Site to Site)
5

Hardware

Enclosure
Indoor, Metal
4pin Molex Micro-Fit Connector
No
Terminal Block Power Connector for Mobile / Vehicular Deployment
No
AC Adapter or PSU
24V 2.5A (ACW-647)
Input voltage
DC 12–30V
PoE Input
No
PoE Output
No
USB Power Input
No
Nominal Power Consumption
NA
Maximum Power Consumption
30W
Dimensions in inches
1.7 x 11.5 x 7.0 inches
Dimensions in mm

43 x 292 x 177 mm
Weight (Pound)
7.28 pounds
Weight (Gram / Kilogram)
3.3 kg
Operating Temperature
-40°–149°F, -40°–65°C
Humidity
15%–95% (non-condensing)
Rack-mount
1U
Dual Hot Swap Power Supply
No

Warranty Info

Warranty
1-Year Limited Warranty