Tech Specs | Enterprise Mobility • HD4 MBX

Quick Look

Number of Ethernet WAN port
3 / 2 (GE)
[1]
[1] WAN 3 is configured as a LAN port by default, configuration is changeable on the Web Admin.
Number of Ethernet LAN port
8 / 9 (GE)
[1]
[1] WAN 3 is configured as a LAN port by default, configuration is changeable on the Web Admin.
Router Throughput
2.5Gbps
SpeedFusion VPN Throughput (No Encryption)
600Mbps
SpeedFusion VPN Throughput (256-bit AES)
500Mbps
Number of Cellular Modem
4

Interfaces

Maximum Ethernet WAN / LAN port configuration
3 WAN with 8 LAN, 2 WAN with 9 LAN
SFP LAN / WAN
No
Serial Interface
No
Wi-Fi AP
Yes
Wi-Fi WAN
Yes
USB WAN
Yes (2x USB)
Module Expansion

Yes

Performance

Number of Recommended Users
50–500
Maximum Number of AP Supported
30 / 50
[2]
[2] 50 AP is available as a license add-on (AP-LC-50).

Wireless details

Cellular Modem Category options
4x CAT-12, 4x CAT-12 (FirstNet Ready), 4x CAT-18, 4x CAT-18 (ESN), 4x CAT-20
5G support
No
SIM Slots
8
SIM Card Size
Mini-SIM (2FF)
Wi-Fi Radio
Dual (2.4GHz + 5GHz), 2x2 Wi-Fi 5
Wi-Fi Antenna Transmit Power (2.4GHz, single chain)
24dBm
Wi-Fi Antenna Transmit Power (5GHz, single chain)
21dBm
Multiple SSIDs
16
GPS
Yes
RemoteSIM (used in SIM Injector)
Yes
FusionSIM
Yes
Peplink eSIM Data Plans
Yes (HW4+)
[3]
[3] Require Firmware 8.3.0 or above and supported for selected SKU.
BYO eSIM
Yes (HW4+)
[4]
[4] 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
[5]
[5] CarePlan subscription includes 2.5TB/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
No
WAN as LAN
Yes
LAN Bypass
No
InTouch
Yes
Virtual WAN
Yes
[6]
[6] Up to 40 Virtual WAN if purchasing Virtual WAN Activation Licence.
Synergy Mode (Controller)
Yes
Synergized Device
Yes
Application and Web Blocking
Yes
Web Content Filtering
Lite
IP Passthrough
Yes
[7]
[7] Available for Firmware 8.5.0 or above.
IPv6
Yes
x.509 Certificate
Yes
Captive Portal
Yes
GPIO
Yes
Ignition Sensing
Yes
Netflow support
Yes
LACP (802.3ad) NIC Bonding
Yes
[8]
[8] Require Firmware 8.4.1 or above.
Internal Storage for Edge Computing
Yes (120GB / 500GB)
[9]
[9] Available with MBX MediaFast version. Support Application, Docker, KVM. Please contact Peplink Business Development team for details.
External Storage via USB Port
Yes
[10]
[10] Support Docker and KVM.
Dead Reckoning
Yes

Core Functionality

Inter-VLAN Routing
Yes
802.1q VLANs Supported

128
Port-Based VLAN
Yes
Load Balancing Algorithms
8
Load Balancing & Failover
Yes
Inbound Load Balancing
No
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 20 or 50
[11]
[11] With purchase of optional SpeedFusion License (MAX-HD-020-SPF / SFN-LC-50) can connect to up to 20 / 50 SpeedFusion VPN peers respectively.
IPsec VPN
Yes
Number of IPsec Tunnels
5
L2TP VPN / Open VPN / PPTP VPN Server
Yes
Maximum PPTP / L2TP / OpenVPN Users
15
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
Yes
AC Adapter or PSU
AC Input 100V–240V, DC Output 54V 3.34A
Input voltage
DC 12–56V
PoE Input

No
PoE Output
Up to 8x 802.3at PoE
[12]
[12] 2x 54V DC input is needed for all 8x LAN ports to have 802.3at PoE. Plugging in 1x 54V DC input will result in 4x LAN ports having 802.3at PoE.
USB Power Input
No
Nominal Power Consumption
35
Maximum Power Consumption
55W (w/o PoE)
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
No
Dual Hot Swap Power Supply
No

Warranty Info

Warranty
1-Year Limited Warranty