

# Balance

## 5000 EC



### Meet the Next Generation **Enterprise Router**

Speed, Reliability and Raw Performance

## Extreme Performance

The Core Router for Large Enterprises

A true enterprise powerhouse, built to handle the most demanding networks. With up to 110 Gbps of total stateful throughput, it delivers seamless multi-site connectivity and multi-cloud networking. Whether it's for **large-scale deployments** or **mission-critical operations**, the Balance 5000 EC will keep your enterprise running at full capacity — without compromise.

Up to  
**110 Gbps**  
Total Throughput

Cloud-Based  
**InControl 2**  
Remote Management Platform

**SpeedFusion**  
Pushed to its Absolute Limits

# Balance 5000 EC



## SpeedFusion

### Full-Speed Protection for SD-WAN Network

Speed alone isn't enough — resiliency is just as important. Peplink's SpeedFusion technology intelligently bonds multiple connections for seamless, fail-proof networking. Say goodbye to packet loss, disruptions, and slow failovers — as your network stays on and runs at full speed.



Up to

**30 Gbps**

SpeedFusion VPN Throughput



## Future-Proof, High-Speed Interfaces for Scalable Networks

### 40G/100G QSFP

Built for ultra-high-speed data center backbones, large-scale data aggregation, and seamless core network scaling.

### 25G/10G SFP

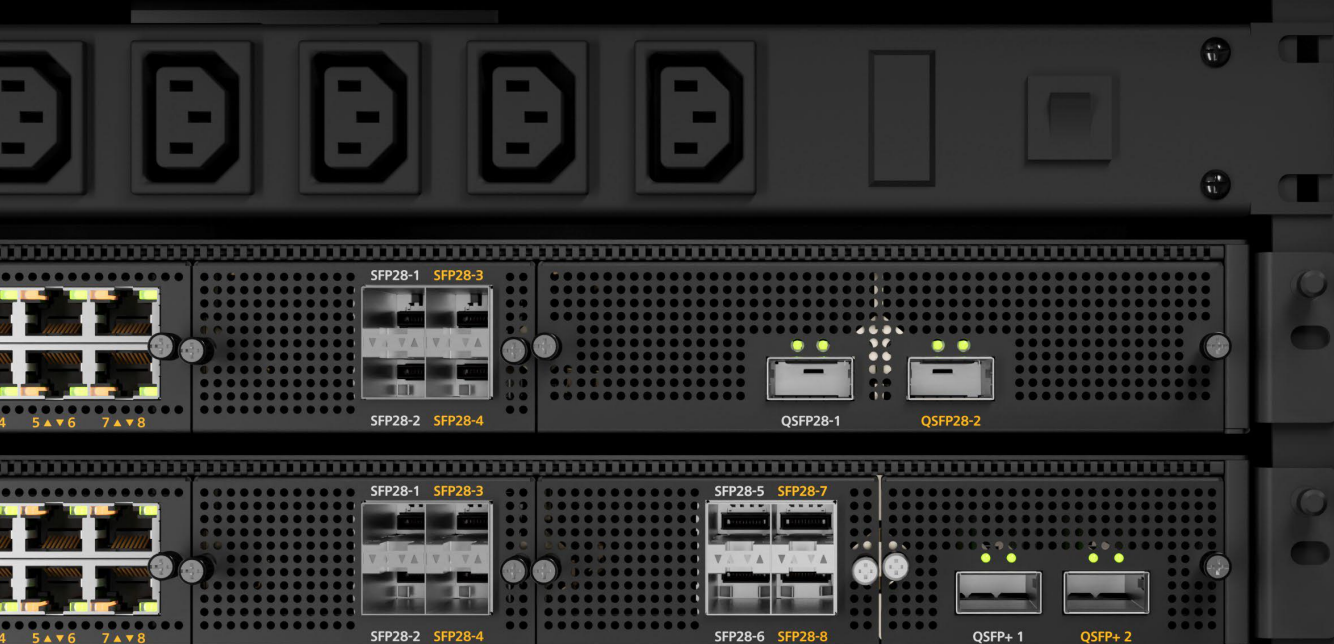
Ideal for high-speed fiber interconnects between regional hubs, enterprise WANs, core switches, and direct cloud on-ramps.

### 2.5G/1G Ethernet

Optimized for LAN aggregation, Wi-Fi access points, access switches and high-performance workstations.



# Balance 5000 EC



**Built for 24/7 Uptime**  
Enterprise-Grade Reliability



**Dual Hot-Swappable Power Supplies**  
Ensure nonstop operations with backup power sources.



**High Availability**  
Hardware redundancy for mission-critical operations.



**LAN Bypass** for Uninterrupted Traffic  
Keep your network running smoothly during unexpected downtime.

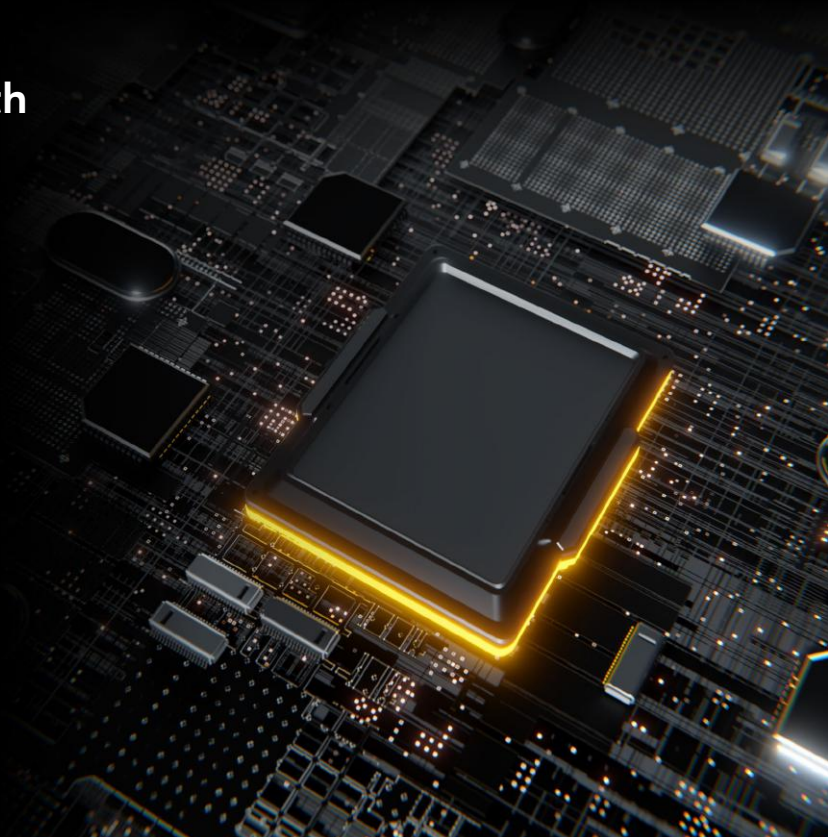
## Empower Enterprise Networks with Intelligent Edge Computing

### Real-Time **Data Processing**

Analyze, filter, and optimize traffic before reaching core infrastructure, reducing latency and improving efficiency.

### Seamless **Application Hosting**

Run Docker and KVM virtual machines directly on the router, enabling security tools, traffic monitoring, network automation, and analytics apps at the edge.

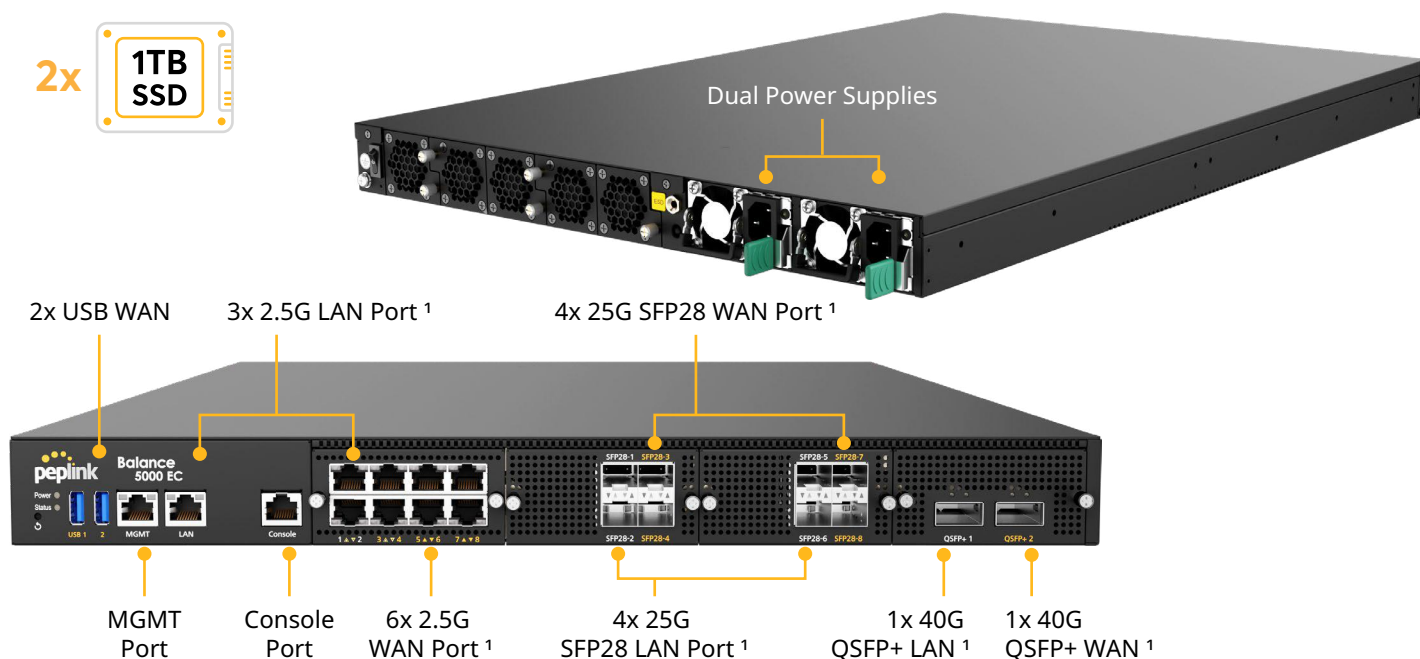




# Balance 5000 EC (40G)



2x



## Specifications

|                                                                       |                                                                                                                                               |                                   |                                                                                                                                   |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>WAN Interface</b>                                                  | Up to 8 x 10/100/1000/2500M Ethernet <sup>1</sup><br>Up to 8 x 25G SFP28 <sup>1</sup><br>Up to 2 x 40G QSFP+ <sup>1</sup><br>2x USB Interface | <b>Edge Computing</b>             | 2x 1TB SSD                                                                                                                        |
| <b>LAN Interface</b>                                                  | Up to 9 x 10/100/1000/2500M Ethernet <sup>1</sup><br>Up to 8 x 25G SFP28 <sup>1</sup><br>Up to 2 x 40G QSFP+ <sup>1</sup>                     | <b>LAN Bypass</b>                 | Yes <sup>2</sup>                                                                                                                  |
| <b>Router Throughput</b>                                              | 70 Gbps                                                                                                                                       | <b>Remote User Access</b>         | Yes                                                                                                                               |
| <b>SpeedFusion VPN Throughput</b><br>- No Encryption<br>- 256-bit AES | 30 Gbps<br>30 Gbps                                                                                                                            | <b>LACP (802.3ad) NIC Bonding</b> | Yes                                                                                                                               |
| <b>Recommended Users</b>                                              | 10000 - 20000+                                                                                                                                | <b>Dual Hot Swap Power Supply</b> | Yes                                                                                                                               |
| <b>Number of SpeedFusion VPN Peers</b>                                | 4000                                                                                                                                          | <b>1U Rack-mount</b>              | Yes                                                                                                                               |
| <b>Maximum Number of AP Supported</b>                                 | 2000                                                                                                                                          | <b>Power Input</b>                | AC Input 110V - 220V                                                                                                              |
| <b>SpeedFusion Features</b>                                           | Hot Failover, Smoothing,<br>Bandwidth Bonding                                                                                                 | <b>Power Consumption</b>          | 196W (nominal), 596W (max.)                                                                                                       |
| <b>Central Management</b>                                             | InControl 2                                                                                                                                   | <b>Dimensions</b>                 | 17.2 x 25.6 x 1.73 inches /<br>438 x 650 x 44 mm                                                                                  |
| <b>Drop-In Mode</b>                                                   | Yes                                                                                                                                           | <b>Weight</b>                     | 52.8 pounds / 24 kg                                                                                                               |
| <b>High Availability</b>                                              | Yes                                                                                                                                           | <b>Operating Temperature</b>      | 32° - 104° F / 0° - 40° C                                                                                                         |
| <b>Content Filtering</b>                                              | Full                                                                                                                                          | <b>Humidity</b>                   | 10% to 90% (non-condensing)                                                                                                       |
| <b>Peplink AP Series Management</b>                                   | Yes                                                                                                                                           | <b>Certifications</b>             | FCC, CE, RoHS                                                                                                                     |
| <b>Remote AP &amp; Multiple Config Profiles Management</b>            | Yes                                                                                                                                           | <b>Package Content</b>            | 1x Balance 5000 EC (40G)<br>2x Power Cords<br>1x Ethernet cable<br>1x Rack Mount Rails<br>1x Short Ear Rack Mount Kit with screws |
|                                                                       |                                                                                                                                               | <b>Warranty</b>                   | 1-Year Limited Warranty                                                                                                           |

<sup>1</sup> SFP28 port 3,4,7,8, QSFP+ port 2 and Ethernet port 3-8 are configured as WAN ports ; SFP28 port 1,2,5,6, QSFP+ port 1 and Ethernet port 1-2 are configured as LAN ports. WAN/LAN Configuration is changeable on the Web Admin.

<sup>2</sup> LAN Bypass is available for internet traffic from LAN 1 to WAN 3 and from LAN 2 to WAN 4.

Specifications are subject to change without notice.

# Balance 5000 EC (100G)



2x

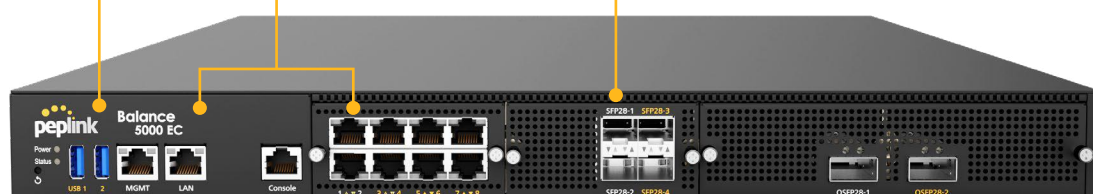


Dual Power Supplies

2x USB WAN

3x 2.5G LAN Port <sup>1</sup>

2x 25G SFP28 LAN Port <sup>1</sup>



MGMT Port

Console Port

6x 2.5G WAN Port <sup>1</sup>

2x 25G SFP28 WAN Port <sup>1</sup>

1x 100G QSFP28 LAN <sup>1</sup>

1x 100G QSFP28 WAN <sup>1</sup>

## Specifications

|                                                            |                                                                                                                                                 |                                   |                                                                                                                                    |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>WAN Interface</b>                                       | Up to 8 x 10/100/1000/2500M Ethernet <sup>1</sup><br>Up to 4 x 25G SFP28 <sup>1</sup><br>Up to 2 x 100G QSFP28 <sup>1</sup><br>2x USB Interface | <b>Edge Computing</b>             | 2x 1TB SSD                                                                                                                         |
| <b>LAN Interface</b>                                       | Up to 9 x 10/100/1000/2500M Ethernet <sup>1</sup><br>Up to 4 x 25G SFP28 <sup>1</sup><br>Up to 2 x 100G QSFP28 <sup>1</sup>                     | <b>LAN Bypass</b>                 | Yes <sup>2</sup>                                                                                                                   |
| <b>Router Throughput</b>                                   | 110 Gbps                                                                                                                                        | <b>Remote User Access</b>         | Yes                                                                                                                                |
| <b>SpeedFusion VPN Throughput</b><br>- No Encryption       | 30 Gbps                                                                                                                                         | <b>LACP (802.3ad) NIC Bonding</b> | Yes                                                                                                                                |
| - 256-bit AES                                              | 30 Gbps                                                                                                                                         | <b>Dual Hot Swap Power Supply</b> | Yes                                                                                                                                |
| <b>Recommended Users</b>                                   | 10000 - 20000+                                                                                                                                  | <b>1U Rack-mount</b>              | Yes                                                                                                                                |
| <b>Number of SpeedFusion VPN Peers</b>                     | 4000                                                                                                                                            | <b>Power Input</b>                | AC Input 110V - 220V                                                                                                               |
| <b>Maximum Number of AP Supported</b>                      | 2000                                                                                                                                            | <b>Power Consumption</b>          | 203W (nominal), 595W (max.)                                                                                                        |
| <b>SpeedFusion Features</b>                                | Hot Failover, Smoothing, Bandwidth Bonding                                                                                                      | <b>Dimensions</b>                 | 17.2 x 25.6 x 1.73 inches / 438 x 650 x 44 mm                                                                                      |
| <b>Central Management</b>                                  | InControl 2                                                                                                                                     | <b>Weight</b>                     | 52.8 pounds / 24 kg                                                                                                                |
| <b>Drop-In Mode</b>                                        | Yes                                                                                                                                             | <b>Operating Temperature</b>      | 32° - 104° F / 0° - 40° C                                                                                                          |
| <b>High Availability</b>                                   | Yes                                                                                                                                             | <b>Humidity</b>                   | 10% to 90% (non-condensing)                                                                                                        |
| <b>Content Filtering</b>                                   | Full                                                                                                                                            | <b>Certifications</b>             | FCC, CE, RoHS                                                                                                                      |
| <b>Peplink AP Series Management</b>                        | Yes                                                                                                                                             | <b>Package Content</b>            | 1x Balance 5000 EC (100G)<br>2x Power Cords<br>1x Ethernet cable<br>1x Rack Mount Rails<br>1x Short Ear Rack Mount Kit with screws |
| <b>Remote AP &amp; Multiple Config Profiles Management</b> | Yes                                                                                                                                             | <b>Warranty</b>                   | 1-Year Limited Warranty                                                                                                            |

<sup>1</sup> SFP28 port 3,4, QSFP28 port 2 and Ethernet port 3-8 are configured as WAN ports ; SFP28 port 1,2, QSFP28 port 1 and Ethernet port 1-2 are configured as LAN ports. WAN/LAN Configuration is changeable on the Web Admin.

<sup>2</sup> LAN Bypass is available for Internet traffic from LAN 1 to WAN 3 and from LAN 2 to WAN 4.

Specifications are subject to change without notice.

## Ordering Information

| Product Code         | Description            |
|----------------------|------------------------|
| BPL-5000-EC-40G-PRM  | Balance 5000 EC (40G)  |
| BPL-5000-EC-100G-PRM | Balance 5000 EC (100G) |

## Featured Add-on

| Product Code        | Description                         |
|---------------------|-------------------------------------|
| PRM-W-1Y / PCP-W-1Y | PrimeCare W / PrimeCare+ W (1-Year) |
| PRM-W-2Y / PCP-W-2Y | PrimeCare W / PrimeCare+ W (2-Year) |
| PRM-W-4Y / PCP-W-4Y | PrimeCare W / PrimeCare+ W (4-Year) |