

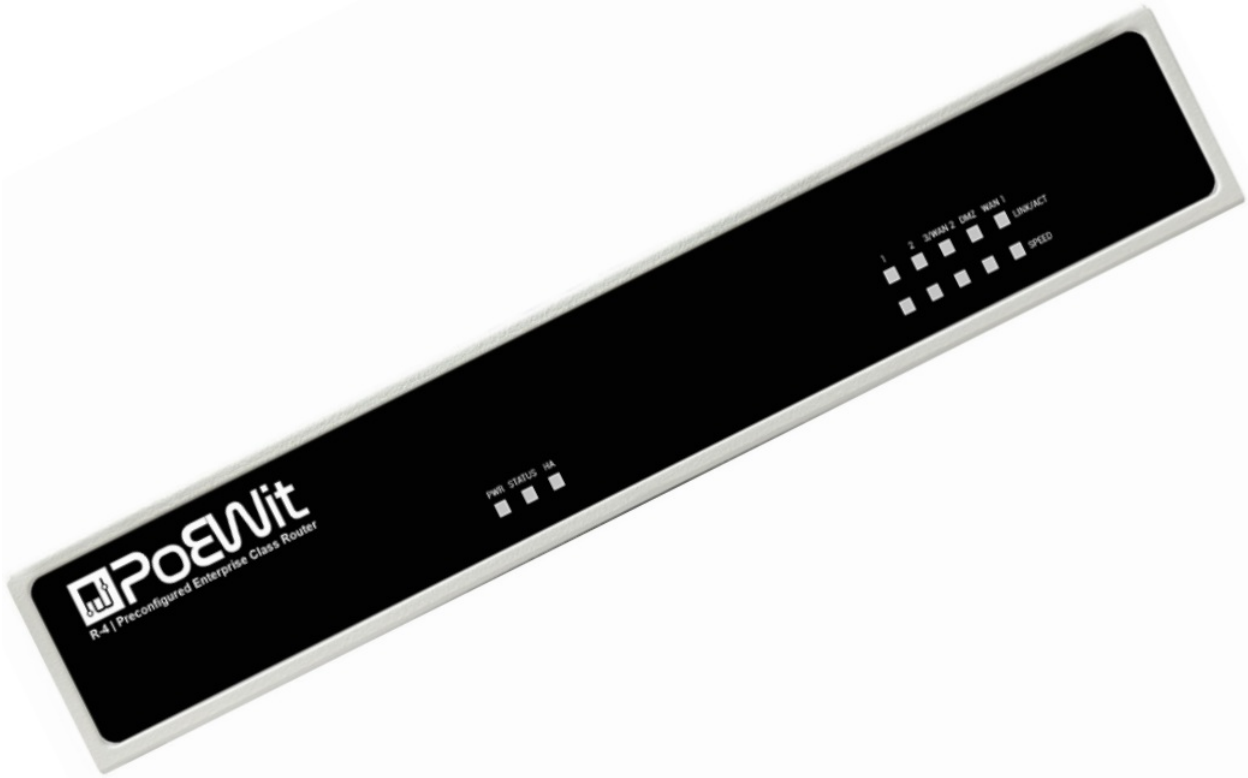


# PoEWit R10 Preconfiguration Enterprise Class Router User Manual

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PRECONFIGURED  
ENTERPRISE-CLASS ROUTER  
R-4 Supports 1G | R-10 Supports 10G  
True WAN-to-LAN Speeds  
User Manual



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## R10 Preconfiguration Enterprise Class Router

- PRECONFIGURED FOR SIMPLE, QUICK, AND ADVANCED RESIDENTIAL INSTALLATIONS WITHOUT ENTERPRISE CONFIGURATION COMPLEXITIES
- SUPPORTS 802.1Q VLAN-TAGGING WHEN PAIRED WITH A PoEWit NETWORK SWITCH AND PoEWit APs
- OUT-OF-THE-BOX ADVANCED SECURITY GUEST NETWORK THAT EASILY PAIRS WITH PoEWit APs
- MULTIPLE VPN TUNNELS TO SUPPORT REMOTE/HYBRID OFFICES
- SLEEK, FAN-LESS DESIGN WITH CUSTOM RACK MOUNT BRACKET FOR A CLEAN FACE WITH CABLES IN THE BACK
- DEDICATED DMZ PORT
- PREDEFINED BASIC AND ADVANCED SETTINGS WITH PoEWit SUPPORT; ADDITIONAL UNLIMITED CUSTOMIZATIONS AVAILABLE WITH SUPPORT OFFERED BY FORTINET AND/OR PoEWit CUSTOM
- R-4 AND R-4-DW SUPPORT BROADBAND SPEEDS OF 1 GIGABIT
- R-10 SUPPORTS BROADBAND SERVICES UP TO 10 GIGABITS
- R-4-DW AND R-10 OFFER DUAL WAN PORTS FOR REDUNDANT INTERNET CONNECTIONS AND WILL AUTOMATICALLY SWITCH TO THE OTHER CONNECTION IF THE FIRST ONE FAILS



PoEWit has partnered with Fortinet, a global leader of cybersecurity solutions and services, on its R-series of preconfigured enterprise-class routers. Built with Fortinet's patented SoC processor, PoEWit's R-4, R-4-DW, and R-10 deliver unparalleled networking and security performance. All models include free PoEWit support and come preconfigured by PoEWit to facilitate plug-and-play deployments.

The simplicity of PoEWit's preconfigured enterprise solution enables custom A/V installers to complete quick, quality installations while avoiding the complexities of an enterprise-level configuration. Out of the box, all R-series routers come preconfigured with advanced security guest networks. These networks can easily be extended to the wireless network via the PoEWit app when a PoEWit wireless access point is installed.

Additionally, when paired with a PoEWit network switch, all R-series routers support 802.1Q VLAN-tagging and can easily handle over 250 devices and beyond straight out of the box, with no additional configuration.

All models feature multiple VPN tunnels, a dedicated DMZ port, and a sleek, fan-less design. They also ship with a custom rack mount bracket for a clean face with cables in the back. Unlike other routers, PoEWit's R-series easily supports 1 Gigabit broadband without any lost speed. In fact, the R-10 supports up to 10 Gigabit broadband services with ease. With a subscription to Unified Threat Management (UTM), PoEWit's R-series routers offer complete parental controls and network security that can block access to unauthorized websites and stop virus infections before they reach computers and other devices on the network.

Router Model	Next-Gen Enterprise-Class Firewall	Rack Space Required	Switch Ports on Router	PoEWith Phone Support	Dual WAN Failover	VPN (SSL)	Advanced Security Guest Network	Supports 250+ Devices (VLANs)	Supports 1G Broadband	Supports Up to 10 G Broadband
R-4	✓	1U	3	✓	X	✓	✓	✓	✓	X
R-4-DW	✓	1U	2	✓	✓	✓	✓	✓	✓	X
R-10	✓	1U	16	✓	✓	✓	✓	✓	✓	✓

## R-4 / R-4-DW Models



## Interfaces

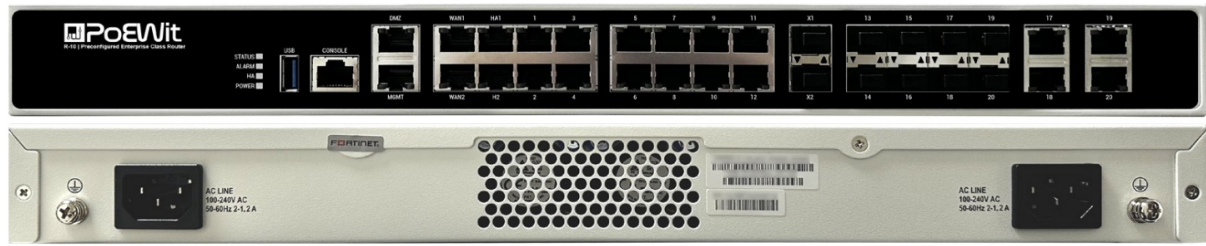
- 1 x USB Port
- 1 x Console Port
- 1 x GE RJ45 WAN Port
- 1 x GE RJ45 Fortlink Port
- 3 x GE RJ45 Ethernet Ports

## Dimensions

- Height x Width x Length: 1.5" x 8.5" x 6.3" (38.5 mm x 216 mm x 160 mm)
- Weight 2.2 lbs (1 kg)



## R-10 Model



## Interfaces

- 1 x USB Port
- 1 x Console Port
- 2 x GE RJ45 MGMT/DMZ Ports
- 2 x GE RJ45 WAN Ports
- 2 x GE RJ45 HA Ports
- 12 x GE RJ45 Ports
- 2 x 10 GE SFP+ Fortlink Slots
- 4 x GE SFP Slots
- 4 x GE RJ45/SFP Shared Media Pairs

## Dimensions

- Height x Width x Length: 1.73" x 17" x 10" (44 mm x 432 mm x 254 mm)
- Weight: 7.25 lbs (3.29 kg)



## HARDWARE SPECIFICATIONS

	<b>R-4 / R-4-DW</b>	<b>R-10</b>
Interfaces	<ul style="list-style-type: none"> <li>• 1 x USB Port</li> <li>• 1x Console Port</li> <li>• 1x GE RJ45 WAN / DMZ Port</li> <li>• 1x GE RJ45 FortiLink Port</li> <li>• 3x GE RJ45 Ethernet Ports</li> </ul>	<ul style="list-style-type: none"> <li>• 1x USB Port</li> <li>• 1x Console Port</li> <li>• 2x GE RJ45 MGMT/DMZ Ports</li> <li>• 2x GE RJ45 WAN Ports</li> <li>• 2x GE RJ45 HA Ports</li> <li>• 12x GE RJ45 Ports</li> <li>• 2x 10 GE SFP+ Ports</li> <li>• 4x GE SFP Ports</li> <li>• 4x GE RJ45 / SFP Shared Media Pairs</li> </ul>
Power	<ul style="list-style-type: none"> <li>• Input Rating: DC 12V, 3A</li> <li>• Powered by External DC Power Adapter, 100-240V AC, 50/60 Hz</li> <li>• Current (Maximum): 1.00V AC / 0.2A, 240V AC / 0.1A</li> <li>• Power Consumption (Average / Maximum): 7.74 W / 9.46 W</li> <li>• Heat Dissipation: 52.55 BTU/h</li> <li>• Redundant Power Supplies: No</li> </ul>	<ul style="list-style-type: none"> <li>• AC Power Supply: 100-240V AC, 50/60 Hz</li> <li>• Current (Maximum): 1.00V / 1 A, 240V / 0.5 A</li> <li>• Power Consumption (Average / Maximum): 35.1 W / 38.7 W</li> <li>• Heat Dissipation: 119.77 BTU/h</li> <li>• Redundant Power Supplies: Yes (Default, Dual Non-Swappable AC PSU for 1+1 Redundancy)</li> </ul>
Installation	• Rack Mount, 1 RU	• Rack Mount, 1 RU

#### SYSTEM PERFORMANCE – ENTERPRISE TRAFFIC MIX

	<b>R-4 / R-4-DW</b>	<b>R-10</b>
IPS Throughput <sup>2</sup>	1 Gbps	2.6 Gbps
NGFW Throughput <sup>2, 4</sup>	800 Mbps	1.6 Gbps
Threat Protection Throughput <sup>2, 5</sup>	600 Mbps	1 Gbps

#### SYSTEM PERFORMANCE AND CAPACITY

	<b>R-4 / R-4-DW</b>	<b>R-10</b>
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	5 / 5 / 5 Gbps	20 / 18 / 10 Gbps
Firewall Latency (64 byte, UDP)	2.97 µs	4.97 µs
Firewall Throughput (Packet Per Second)	7.5 Mbps	15 Mpps
Concurrent Sessions (TCP)	700,000	1.5 Million
New Sessions/Second (TCP)	35,000	56,000
Firewall Policies	5,000	10,000
IPsec VPN Throughput (512 byte) <sup>1</sup>	4.4 Gbps	11.5 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	200	2,000
Client-to-Gateway IPsec VPN Tunnels	250	16,000
SSL-VPN Throughput	490 Mbps	1 Gbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	200	500
SSL Inspection Throughput (IPS, avg. HTTPS) <sup>3</sup>	310 Mbps	1 Gbps
SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup>	320	1,800
SSL Inspection Concurrent Session (IPS, avg. HTTPS) <sup>3</sup>	55,000	135,000
Application Control Throughput (HTTP 64K) <sup>2</sup>	990 Mbps	2.2 Gbps
CAPWAP Throughput (HTTP 64K)	3.5 Gbps	15 Gbps
Virtual Domains (Default / Maximum)	10-Oct	10-Oct
High Availability Configurations	Active-Active, Active-Passive, Clustering	Active-Active, Active-Passive, Clustering

**Note:** All System Performance values are “up to” and vary depending on system configuration.

1. IPsec VPN performance test uses AES256-SHA256.
2. IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.
3. SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.
4. NGFW performance is measured with Firewall, IPS and Application Control enabled.
5. Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled

## Mounting

- The R-4 and R-4-DW come with an RB-4 Rack Mount Bracket and all mounting hardware.
- The R-10 comes with rack mount ears.
- Fits standard 19” 1U AV rack
- Clean front face with cables that exit from the back

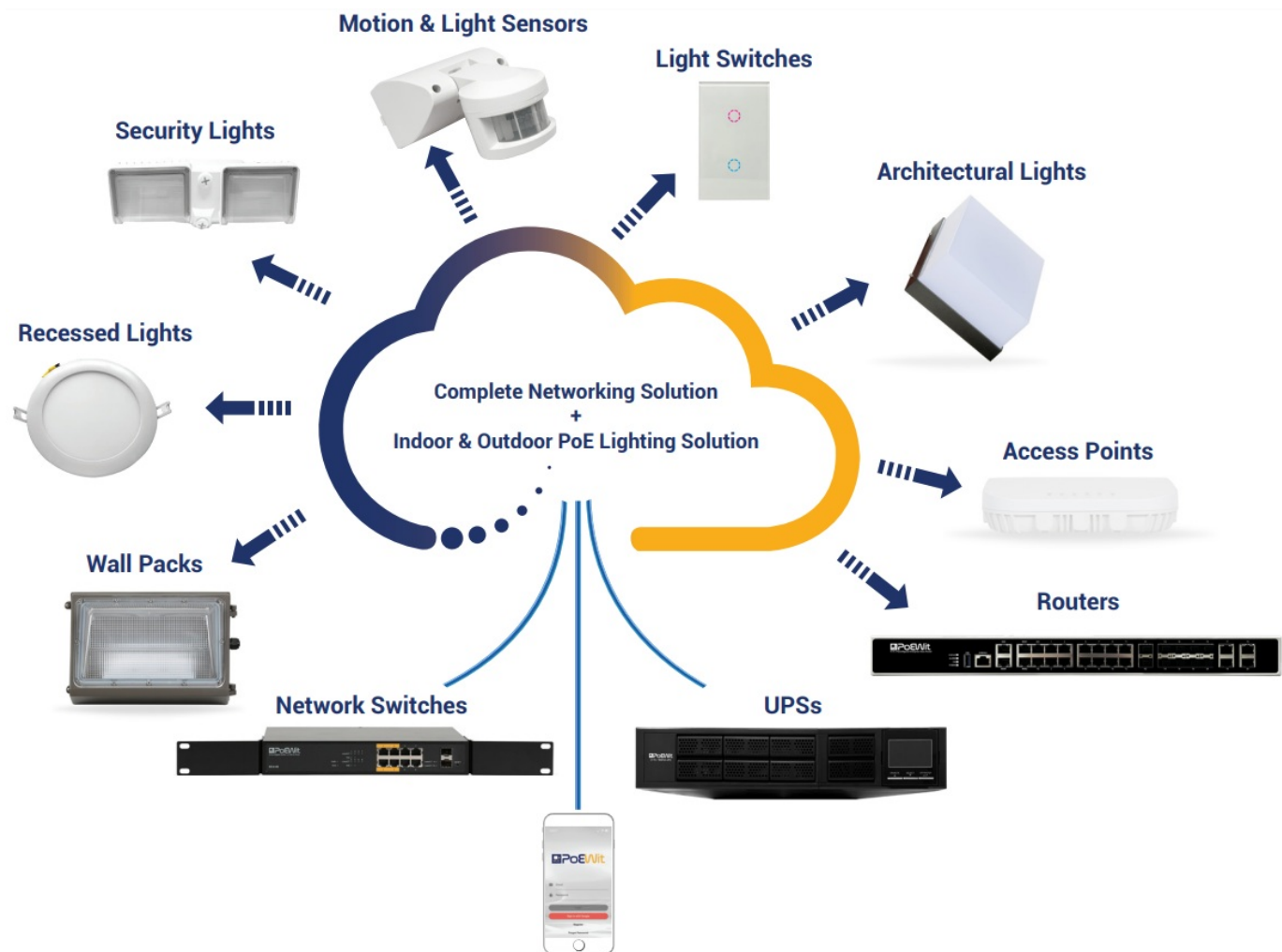
## OPERATING ENVIRONMENT AND CERTIFICATIONS

	<b>R-4 / R-4-DW</b>	<b>R-10</b>
Operating Temperature	32°-104°F (0°-40°C)	32°-104°F (0°-40°C)
Storage Temperature	-31°-158°F (-35°-70°C)	-31°-158°F (-35°-70°C)
Humidity	10%-90% Non-condensing	10%-90% Non-condensing
Noise Level	0 dBA	40.4 dBA
Forced Airflow	N/A, Fan-less	Side to Back
Operating Altitude	Up to 7400 ft (2250 m)	Up to 7400 ft (2250 m)
Compliance	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB	FCC Part 15B, Class A, CE, RCM, VCCI, UL/cUL, CB, BSMI
Certifications	USGv6/IPv6	USGv6/IPv6

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Noise Level	0 dBA	40.4 dBA
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Certifications	USGv6/IPv6	USGv6/IPv6

## The PoEWit Tree of PoE Solutions



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R-4 | R-4-DW | R-10

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## Documents / Resources

	<p><a href="#">PoEWit R10 Preconfiguration Enterprise Class Router</a> [pdf] User Manual</p> <p>R-4, R-4-DW, R-10, R10 Preconfiguration Enterprise Class Router, R10 Enterprise Class Router, R10, Preconfiguration Enterprise Class Router, Preconfiguration Router, Enterprise Class Router, Router</p>
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## References

- [PoE lighting \(Power over Ethernet\) + Smart Home Technology | PoEWit](#)