

## Platform Family

The BlackRidge Adaptive Trust Platform is a distributed solution that provides high performance network and cloud security operating in real time before other security technologies engage. BlackRidge solution components include hardware and software gateways and software endpoints that implement BlackRidge Transport Access Control with First Packet Authentication™.



**Enterprise Gateways**



**Cloud and Virtual Gateways**



**Branch/Desktop Gateway**



**Software Endpoints**

## Product Deployment Options

BlackRidge products can be deployed in a variety of network, data center and cloud configurations. Our gateway software can be deployed as high-performance network appliances or as virtual appliances. Our endpoint software can be installed on various end user devices. Network, virtual server, and cloud deployment options include deploying in-line as a Layer 2 transparent bridge anywhere along a data path, or logically inline as a Layer 3 gateway.

BlackRidge products are designed to be highly resilient and can be configured for high availability and failover. Security policies can be verified during deployment with progressive installation modes of bridge, monitor and audit, and then enforce policy, with all actions logged to security information and event management (SIEM) systems. A management console is available to aid in deploying and maintaining a BlackRidge implementation.

### Enterprise Gateways

BlackRidge enterprise gateways are available as physical, virtual and cloud appliances:

- 1U rack-mountable 1GbE or 10GbE network devices
- VMware ESXi™ virtual appliance; Amazon VPC appliance
- z/VM® appliance for the IBM Z® mainframe

A BlackRidge appliance is configured with two 1GbE or two 10GbE data ports, along with a 1GbE dedicated management port. BlackRidge hardware appliances support copper interfaces with RJ-45 or fiber optics with SFP+, SR, or LR transceivers, with optional NIC bypass capability to fail open or closed. The 1GbE gateways support up to 10,000 unique identities and 1,000,000 concurrent network sessions. The 10GbE gateways support up to 40,000 identities and 4,000,000 sessions.

### Branch and Desktop Gateway

A fanless desktop gateway is available for protecting assets in remote or branch offices, small subnets or single servers. The small form factor branch gateway is configured with two 1GbE data ports along with one 1GbE port for management, and it supports up to 1,000 identities and 100,000 concurrent network sessions.

### Software Endpoints

A BlackRidge software endpoint is TAC software that runs on a user device. It performs identity insertion into TCP/IP session establishment requests without user interaction and performs mutual authentication of network sessions. BlackRidge software endpoints are available for Windows® 7, Windows 10 and Ubuntu, with additional Linux operating systems and macOS® to be supported.

BlackRidge Gateway Specifications					
Product SKU	BR-2110 BR-2120 BR-2061	BR-3110	BR-3120 BR-3121	BR-3220-T BR-3221-T	BR-3220-F BR-3221-SR/LR
<b>Platform Description</b>	VMware, AWS IBM z/VM Gateway	1G Branch Gateway	1G Enterprise Gateway	10G Enterprise Gateway (Copper)	10G Enterprise Gateway (Fiber)
<b>Trusted Port</b>	1 x 1GbE v-switch	1 x 1GbE (RJ-45)	1 x 1GbE (RJ-45)	1 x 10GbE (RJ-45)	1x10GbE (SR/LR) 1x10GbE (SFP+)
<b>Untrusted Port</b>	1 x 1GbE v-switch	1 x 1GbE (RJ-45)	1 x 1GbE (RJ-45)	1 x 10GbE (RJ-45)	1x10GbE (SR/LR) 1x10GbE (SFP+)
<b>NIC Bypass</b>	-	-	Yes (BR-3121)	Yes (BR-3221-T)	Yes (BR-3221-SR/LR)
<b>Management Port</b>	1 x 1GbE v-switch	1GbE (RJ-45)	1GbE (RJ-45)	1GbE (RJ-45)	1GbE (RJ-45)
<b>Console Access</b>	Yes (virtual)	Serial	Serial	Serial	Serial
<b>Max Identities</b>	10,000	1,000	10,000	40,000	40,000
<b>Concurrent Sessions</b>	1,000,000	100,000	1,000,000	4,000,000	4,000,000
<b>Latency Est.</b>	<100 µsec	<200 µsec	<80 µsec	<12 µsec	<12 µsec
<b>Size (inches)</b>	-	7x1.73x5.73	1RU, 24" depth	1RU, 24" depth	1RU, 24" depth
<b>Weight (lbs.)</b>	-	2.1	37	37	37
<b>Power</b>	-	AC	Dual AC	Dual AC	Dual AC
<b>Wattage (W)</b>	-	36	550	550	550
<b>Heat (BTU/hr.)</b>	-	-	2107	2107	2107
<b>Operating Temp</b>	-	32F to 104F	50F to 95F	50F to 95F	50F to 95F
<b>Rel. Humidity</b>	-	5% to 90%	10% to 80%	10% to 80%	10% to 80%
<b>Safety</b>	-	UL/CB	IEC 60950-1	IEC 60950-1	IEC 60950-1
<b>Emission</b>	-	CE/FCC	CISPR 22/24 EN 55022/55024	CISPR 22/24 EN 55022/55024	CISPR 22/24 EN 55022/55024
<b>EU RoHS</b>	-	2011/65/EU w exceptions	2011/65/EU	2011/65/EU	2011/65/EU
<b>Energy Efficiency</b>	-	Level VI w new power adapter	Energy Star 2.0	Energy Star 2.0	Energy Star 2.0

## About BlackRidge Technology

BlackRidge Technology provides an adaptive cyber defense solution that enables our customers to deliver more secure and resilient business services in today's rapidly evolving computing and cyber threat environments. The BlackRidge Adaptive Trust Platform provides an end-to-end security solution that proactively isolates cloud services, protects servers and segments networks.