

Platform Family

The BlackRidge adaptive trust solution 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 (TAC) 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, and our endpoint software can be installed on various end user devices. Deployment options include in-line as a Layer 2 transparent bridge, 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 and Branch Gateways

BlackRidge enterprise gateways are available as 1U rack-mountable appliances in either 1GbE or 10GbE network configurations. Each appliance is configured with either two 1GbE or two 10GbE data ports, along with a 1GbE dedicated management port. Numerous network interface options are available: copper interfaces with RJ-45 or fiber optics with SFP+, SR or LR transceivers, and 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.

A fanless branch or 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.

Cloud and Virtual Gateways

BlackRidge gateways are available for several hypervisors and cloud compute environments. Like their physical brethren, each appliance is configured with two data ports, along with a dedicated management port. All virtual appliances adapt to their environment, automatically sizing based on the provisioned host resources. Supported environments include: VMware ESXi™, Linux Kernel Virtual Machine (KVM), Amazon Web Services (AWS), and z/VM® for the IBM Z®.

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-2010 BR-2020 BR-2040 BR-2061	BR-3110	BR-3120 BR-3121	BR-3220-T BR-3221-T	BR-3220-F BR-3221-SR/LR
Platform Description	VMware, AWS, KVM, z/VM Gateway	1G Branch Gateway	1G Enterprise Gateway	10G Enterprise Gateway(Copper)	10G Enterprise Gateway (Fiber)
Trusted Port	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+)
Untrusted Port	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+)
NIC Bypass	-	-	Yes (BR-3121)	Yes (BR-3221-T)	Yes (BR-3221-SR/LR)
Management Port	1 x 1GbE v-switch	1GbE (RJ-45)	1GbE (RJ-45)	1GbE (RJ-45)	1GbE (RJ-45)
Console Access	Yes (virtual)	Serial	Serial	Serial	Serial
Max Identities	100-100K	1,000	10,000	40,000	40,000
Concurrent Sessions	10K-1M	100,000	1,000,000	4,000,000	4,000,000
Latency Est.	<100 µsec	<200 µsec	<80 µsec	<12 µsec	<12 µsec
Size (inches)	-	7x1.73x5.73	1RU, 24" depth	1RU, 24" depth	1RU, 24" depth
Weight (lbs.)	-	2.1	37	37	37
Power	-	AC	Dual AC	Dual AC	Dual AC
Wattage (W)	-	36	550	550	550
Heat (BTU/hr.)	-	-	2107	2107	2107
Operating Temp	-	32F to 104F	50F to 95F	50F to 95F	50F to 95F
Rel. Humidity	-	5% to 90%	10% to 80%	10% to 80%	10% to 80%
Safety	-	UL/CB	IEC 60950-1	IEC 60950-1	IEC 60950-1
Emission	-	CE/FCC	CISPR 22/24 EN 55022/55024	CISPR 22/24 EN 55022/55024	CISPR 22/24 EN 55022/55024
EU RoHS	-	2011/65/EU w exceptions	2011/65/EU	2011/65/EU	2011/65/EU
Energy Efficiency	-	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.