

BlackRidge Platform Family

BlackRidge network security and cyber defense is a distributed solution that provides high performance network and cloud security that operates in real time before other security technologies engage. The BlackRidge identity-based model for network security is network topology independent and operates end-to-end across network and cloud boundaries, with multiple policy enforcement points. Our solution can dynamically integrate with your existing identity infrastructure to learn identities and automate network security policies, without user or administrator action.

BlackRidge solution components include gateways that can be deployed in a variety of network and cloud security stack and server configurations as virtual software functions or as hardware appliances.



Enterprise Appliances



**Cloud and Virtual
Appliances**



**Branch and Desktop
Appliances**

Product Deployment Options

BlackRidge provides high throughput and low latency network security that operates pre-session, in real time, before other security defenses engage. BlackRidge gateway software can be deployed as virtual appliances or as high-performance network appliances. Network and cloud configuration options include in-line as a Layer 2 transparent bridge anywhere along a data path, or logically inline as a Layer 3 gateway for cloud deployments. BlackRidge software and systems 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 your security event management system.

Enterprise and Virtual Gateways

BlackRidge Enterprise Gateways are available as physical, virtual and cloud appliances:

- 1U rack-mountable 1GbE or 10GbE network devices
- VMware virtual appliances, IBM SoftLayer and Amazon Web Services cloud appliances
- IBM z Systems™ LPAR or z/VM® appliances

A BlackRidge TAC appliance is configured with two 1GbE or two 10GbE data ports, along with a 1GbE or a console port for management. TAC 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 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.

BlackRidge Gateway Models							
Product SKU	BR-2110 BR-2120 BR-2061	BR-2210	BR-3110	BR-3120 BR-3121	BR-3220-T BR-3221-T	BR-3220-F BR-3221-SR/LR	BR-2051
Gateway Description	1G VMware, AWS or IBM z/VM Gateway	10G VMware Gateway	1G Branch Gateway	1G Enterprise Gateway	10G Enterprise Gateway (Copper)	10G Enterprise Gateway (Fiber)	IBM z Systems LPAR Gateway
Gateway Port Configurations							
Trusted Port	1 x 1GbE v-switch	1 x 10GbE v-switch	1 x 1GbE (RJ-45)	1 x 1GbE (RJ-45)	1 x 10GbE (RJ-45)	1 x 10GbE (SR/LR) 1 x 10GbE (SFP+)	1/10G OSA port
Untrusted Port	1 x 1GbE v-switch	1 x 10GbE v-switch	1 x 1GbE (RJ-45)	1 x 1GbE (RJ-45)	1 x 10GbE (RJ-45)	1 x 10GbE (SR/LR) 1 x 10GbE (SFP+)	1/10G OSA port
NIC Bypass	-	-	-	Yes (BR-3121)	Yes (BR-3221-T)	Yes (BR-3221-SR/LR)	N/A
Management Port	1 x 1GbE v-switch	1 x 1GbE v-switch	1GbE (RJ-45)	1GbE (RJ-45)	1GbE (RJ-45)	1GbE (RJ-45)	1/10G OSA port
Console Access	Yes (virtual)	Yes (virtual)	Serial	Serial	Serial	Serial	Yes (HMC)
Throughput and Capacity							
Max Identities	10,000	30,000	1,000	10,000	40,000	40,000	10,000
Concurrent Sessions	1,000,000	4,000,000	100,000	1,000,000	4,000,000	4,000,000	1,000,000
Latency Est.	<100 µsec	<100 µsec	<200 µsec	<80 µsec	<12 µsec	<12 µsec	<100 µsec
Dimensions, Power and Operating Environment							
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%	-
Certifications							
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 a next generation cyber defense solution that stops cyber-attacks and blocks unauthenticated access. BlackRidge Transport Access Control authenticates identity and enforces security policy on the first packet of network sessions, providing a new level of real-time cyber defense that isolates and cloaks servers and clouds, segments networks, and provides identity attribution.