Barracuda CloudGen Firewall F-Series

Protect cloud-connected users, network workloads, and devices wherever they reside.

As you integrate public-cloud platforms and environments into your network, your firewalls must go beyond perimeter security and serve as the linchpins of your IT communications flow, ensuring reliable, cost-effective connections. Barracuda CloudGen Firewall was designed to optimize the performance, security, and availability of today's dispersed enterprise SD-WANs.

Barracuda CloudGen Firewall combines a complete security stack, powerful SD-WAN capabilities, and simple centralized management for hundreds or thousands of firewalls. Zero-touch hardware deployment and native cloud integration get you up and running quickly and easily in any environment.

Full next-generation security

Barracuda CloudGen Firewall is built to provide comprehensive, next-generation firewall protection. Firewalling, IPS, URL filtering, dual antivirus, and application control take place in the data path. Sandboxing and other resource-intensive tasks are offloaded seamlessly to the cloud. All platforms and models include the same comprehensive security feature-set.

Full SD-WAN capability

In the cloud era, you need to connect branch offices with the cloud directly and securely. Connecting through a single, central gateway is no longer cost-effective. CloudGen Firewall lets you replace costly MPLS connections with up to 24 bonded broadband connections per VPN tunnel for increased bandwidth and built-in redundancy at lower cost.

Connecting the dots

Barracuda CloudGen Firewall's next-generation security and SD-WAN capabilities, efficient centralized management, and traffic optimization over low-cost lines let you access cloud resources safely and cost-effectively, from anywhere in the network.

Technical specs

Firewall

- Stateful packet inspection and forwarding
- Full user-identity awareness
- IDS/IPS
- Application control and granular application enforcement
- Interception and decryption of SSL/TLS encrypted applications
- Antivirus and web filtering in single pass mode
- Email security
- SafeSearch enforcement
- Google Accounts Enforcement
- Denial of Service protection (DoS/DDoS)
- Spoofing and flooding protection
- ARP spoofing and trashing protection
- DNS reputation filtering
- NAT (SNAT, DNAT), PAT
- Dynamic rules / timer triggers
- Single object-oriented rule set for routing, bridging, and routed bridging
- Virtual rule test environment

Protocol support

- IPv4, IPv6
- BGP/OSPF/RIP
- VoIP (H.323, SIP, SCCP [skinny])
- RPC protocols (ONC-RPC, DCE-RPC)
- 802.1q VLAN
- Industrial protocols and subprotocols (S7, IEC 60870-5-104, IEC 61850, MODBUS, DNP3)

Intrusion detection and prevention

- Protection against exploits, threats and vulnerabilities
- Packet anomaly and fragmentation protection
- Advanced anti-evasion and obfuscation techniques
- Automatic signature updates

High Availability

- Active-passive
- Transparent failover without session loss
- Encrypted HA communication

Advanced threat protection

- Dynamic, on-demand analysis of malware programs (sandboxing)
- Dynamic analysis of documents with embedded exploits (PDF, Office, etc.)
- Detailed forensic analysis
- Botnet and spyware protection
- TypoSquatting and link protection for email

Central management options via Barracuda Firewall Control Center

- Administration for unlimited firewalls
- Support for multi-tenancy
- Multi-administrator support & RCS
- Zero-touch deployment
- Enterprise/MSP licensing
- Template & repository-based management
- REST API

Traffic intelligence & SD-WAN

- Simultaneous use of multiple uplinks (transports) per VPN tunnel
- FIPS 140-2 certified cryptography
- Auto-VPN tunnel creation between remote spoke locations based on application type
- Dynamic bandwidth detection
- Performance-based transport selection
- Application-aware traffic routing
- Adaptive session balancing across multiple uplinks
- Traffic replication (forward error correction)
- Application-based provider selection
- Application-aware traffic routing (VPN)
- Traffic shaping and QoS
- Built-in data deduplication

VPN

- Drag & drop VPN tunnel configuration
- Network access control
- iOS and android mobile device VPN support
- Multi-factor authentication for SSL VPN and CudaLaunch

Infrastructure services

- DHCP server, relay
- SIP, HTTP, SSH, FTP proxies
- SNMP and IPFIX support
- DNS cache
- Wi-Fi (802.11n) on selected models

Support options

Barracuda Energize Updates

- Standard technical support
- Firmware updates
- IPS signature updates
- Application control definition updates
- Web filter updates

Instant Replacement Service

- Replacement unit shipped next business day
- 24/7 technical support
- Free hardware refresh every four years

Available bundles and subscriptions

Barracuda Firewall Insights

Consolidates security, application flow, and connectivity information from hundreds or even thousands of firewalls on the extended wide area network – regardless of whether they are hardware, virtual, or cross-cloud-based deployments.

Advanced threat and malware protection

Combines gateway-based protection against malware, viruses with advanced threat protection's sandboxing to protect against network breaches, zero-day malware exploits and other advanced malware like ransomware.

Advanced remote access

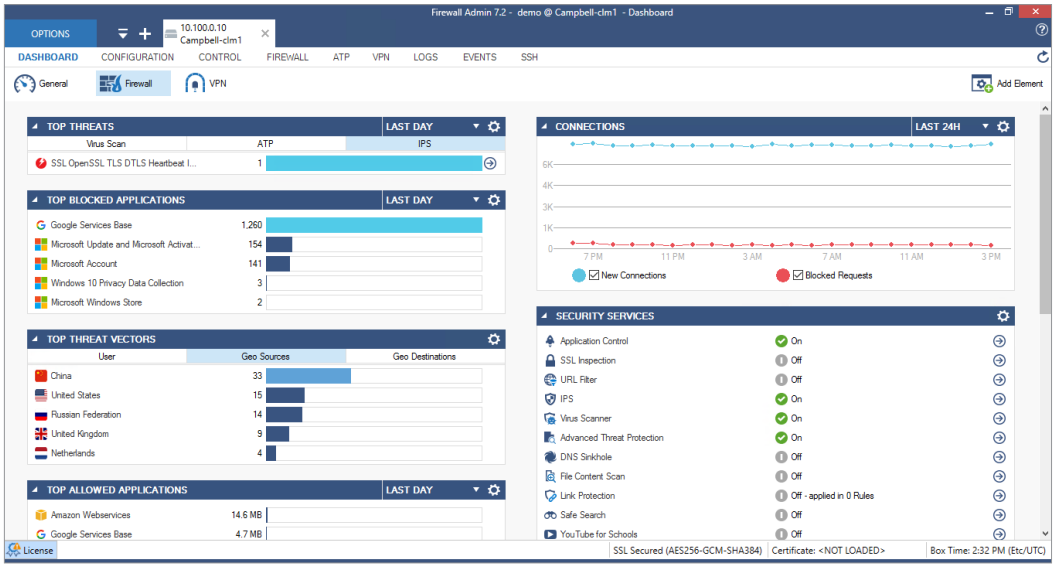
Provides a customizable and easy-to-use portal-based SSL VPN as well as sophisticated network access control (NAC) functionality and CudaLaunch support.

Total protect

Bundles the hardware unit with Energize Updates, application control, IPS, web filter, malware protection, email security, warranty extension, and 8x5 basic support.

Total protect PLUS

Adds advanced threat and malware protection, advanced remote access, and 24x7 support to Total protect bundle.



Barracuda CloudGen Firewall's dashboard provides real-time information and summaries of what is going on in an organization's network.

Basic features

	ENTRY AND BRANCH OFFICE	MID-RANGE	HIGH-END
Firewall incl. IPS	✓	✓	✓
Application control	✓	✓	✓
Dynamic routing	✓	✓	✓
Application-based provider selection	✓	✓	✓
SSL interception	✓	✓	✓
SD-WAN	✓	✓	✓
Web filter	✓	✓	✓
Zero-touch deployment	✓	✓	✓
Client-to-site and site-to-site VPN	Unlimited	Unlimited	Unlimited

Optional features

	ENTRY AND BRANCH OFFICE	MID-RANGE	HIGH-END
Firewall Insights	Optional	Optional	Optional
Advanced threat protection	Optional	Optional	Optional
Malware protection	Optional [1]	Optional	Optional
Advanced threat and malware protection	Optional [2]	Optional	Optional
Advanced remote access	Optional [2]	Optional	Optional
Total protect / Total protect PLUS	Optional [3]	Optional	Optional

Entry & branch office models

	F12	F18	F80B	F82.DSLA	F180	F183	F183R	F280
PERFORMANCE								
Firewall throughput [4]	1.2 Gbps	1.0 Gbps	2.0 Gbps	1.5 Gbps	1.7 Gbps	2.0 Gbps	2.1 Gbps	3.7 Gbps
VPN throughput [5]	220 Mbps	190 Mbps	720 Mbps	240 Mbps	300 Mbps	300 Mbps	320 Mbps	1.1 Gbps
IPS throughput [6]	400 Mbps	400 Mbps	600 Mbps	400 Mbps	500 Mbps	580 Mbps	790 Mbps	1.2 Gbps
NGFW throughput [7]	250 Mbps	340 Mbps	400 Mbps	400 Mbps	550 Mbps	700 Mbps	800 Mbps	1.0 Gbps
Threat protection throughput [8]	230 Mbps	320 Mbps	380 Mbps	380 Mbps	480 Mbps	600 Mbps	700 Mbps	900 Mbps
Concurrent sessions	80,000	80,000	80,000	80,000	100,000	100,000	100,000	250,000
New session/s	8,000	8,000	12,000	8,000	9,000	9,000	9,000	10,000
HARDWARE								
Form factor	Compact	Desktop	Desktop	Desktop	Desktop	Desktop	Compact, DIN rail	Desktop
Copper ethernet NICs [GbE]	5x1	4x1	5x1	4x1	6x1	6x1	5x1	6x1
Fiber NICs (SFP) [GbE]	-	-	-	1x1	-	2x1	2x1	-
Integrated switch	-	-	-	-	8-port	-	-	8-port
Integrated modem	-	-	-	DSL Annex A, RJ11	-	-	-	-
Wi-Fi access point	-	-	✓	✓	✓	✓	-	✓
Power supply	Single, external	Single, external	Single, external	Single, external	Single, external	Single, external	Phoenix 6-pin	Single, external

Mid-range models

	F380	F400 SUBMODELS		F600D SUBMODELS				
		STD	F20	C10	C20	F10	F20	E20
PERFORMANCE								
Firewall throughput [4]	5.2 Gbps	7.1 Gbps	9.0 Gbps	15 Gbps		15 Gbps		20 Gbps
VPN throughput [5]	1.4 Gbps	2.3 Gbps	2.3 Gbps	3.8 Gbps		3.8 Gbps		6.8 Gbps
IPS throughput [6]	2.0 Gbps	2.8 Gbps	3.0 Gbps	4.8 Gbps		4.8 Gbps		8.0 Gbps
NGFW throughput [7]	1.4 Gbps	2.2 Gbps	3.0 Gbps	4.2 Gbps		4.2 Gbps		6.4 Gbps
Threat protection throughput [8]	1.2 Gbps	2.0 Gbps	2.7 Gbps	4.0 Gbps		4.0 Gbps		5.8 Gbps
Concurrent sessions	400,000	500,000	500,000	2,100,000		2,100,000		2,100,000
New session/s	15,000	20,000	20,000	115,000		115,000		115,000
HARDWARE								
Form factor	1U rack mount	1U rack mount		1U rack mount				
Copper ethernet NICs [GbE]	8x1	8x1	8x1	16x1	16x1	8x1	8x1	8x1
Fiber NICs (SFP) [GbE]	-	-	4x1	-	-	8x1	8x1	8x1
Fiber NICs (SFP+) [GbE]	-	-	-	-	-	-	-	2x10
Power supply	Single, internal	Single, internal	Dual, hot swap	Single, internal	Dual, hot swap	Single, internal	Dual, hot swap	Dual, hot swap

High-end models

	F800 SUBMODELS			F900 SUBMODELS				F1000 SUBMODELS			
	CCC	CCF	CCE	CCC	CCE	CFE	CFEQ	CE0	CE2	CFE	CFEQ
PERFORMANCE											
Firewall throughput [4]	30 Gbps			35 Gbps			45 Gbps	40 Gbps			46 Gbps
VPN throughput [5]	7.5 Gbps			9.3 Gbps			13.5 Gbps	10 Gbps			10.3 Gbps
IPS throughput [6]	8.3 Gbps			11.3 Gbps			13 Gbps	13 Gbps			14 Gbps
NGFW throughput [7]	7.7 Gbps			8.0 Gbps			12 Gbps	10.2 Gbps			13 Gbps
Threat protection throughput [8]	7.6 Gbps			8.0 Gbps			11.5 Gbps	4.0 Gbps			12 Gbps
Concurrent sessions	2,500,000			4,000,000			4,000,000	10,000,000			10,000,000
New session/s	180,000			190,000			190,000	250,000			250,000
HARDWARE											
Form factor	1U rack mount			1U rack mount				2U rack mount			
Copper ethernet NICs [GbE]	24x1	16x1	16x1	32x1	16x1	8x1	8x1	16x1	32x1	16x1	16x1
Fiber NICs (SFP) [GbE]	-	8x1	-	-	-	8x1	8x1	-	-	16x1	16x1
Fiber NICs (SFP+) [GbE]	-	-	4x10	-	8x10	8x10	4x10	4x10	8x10	8x10	6x10
Fiber NICs (QSFP+) [GbE]	-	-	-	-	-	-	2x40	-	-	-	2x40
Power supply	Dual hot swap			Dual hot swap				Dual hot swap			

All performance values are measured under optimized conditions and are to be considered as "up to" values and may vary depending on system configuration and infrastructure:

[1] *For model F12, malware protection utilizes cloud-based malware protection as part of an active Advanced Threat Protection subscription.*

[2] *For model F12, this feature is not available.*

[3] *For model F12, Total Protect PLUS bundle utilizes cloud-based malware protection; item Advanced Remote Access is not available.*

[4] *Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports, utilizing highest available port density.*

[5] *VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.*

[6] *IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports, utilizing highest available port density.*

[7] *NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports, utilizing highest available port density.*

[8] *Threat protection throughput is measured with IPS, application control, web filter, antivirus, and SSL inspection enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.*

Specifications subject to change without notice.

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