

# Barracuda NextGen Firewall X

Cloud-Connected, Easy-to-Use Next-Generation Firewall



Next-generation visibility and control for today's modern networks—the Barracuda NextGen Firewall X-Series provide **full application control, user awareness, and content security that's so easy to use, it's even manageable from the cloud.**

#### Security

- Data Protection
- Application Delivery



## The Barracuda Advantage

- Easy-to-use, web-based administration
- Affordable, all-inclusive pricing
- Unlimited users and protected IPs per firewall
- Unlimited remote connectivity VPN clients included
- Cloud-based centralized management
- Flexible web filtering options (on-box, cloud, Barracuda Web Filter integration)

## Product Spotlight

- Granular control over thousands of applications
- Full user-awareness
- Stateful firewall and IPS network perimeter protection
- Advanced Threat Protection (incl. sandboxing)
- Optimized Internet connectivity via multiple providers
- True application-based provider selection
- Application control and content security inspection on encrypted web traffic



### Next-Generation Firewall

The Barracuda NextGen Firewall X-Series uses application visibility and user-identity awareness to enable enforcement of granular access policies. Define policies based on any combination of application, user or group ID, time, and other criteria. Policies can even respond to specific application behaviors or features - for example, allowing all employees to use Skype voice, but allowing only executives to use Skype video, except after business hours.



### Content Security

With the Barracuda NextGen Firewall X-Series, the content security functionality is not simply bolted on top of the network stack, it's deeply integrated into the firewall engine. As an option, antivirus and web filtering may even be offloaded to the Barracuda Web Security Service cloud, freeing further CPU cycles for network scalability. With the optionally available Advanced Threat Protection the X-Series also offers protection against advanced malware and zero day exploits that routinely bypass traditional signature-based IPS and antivirus engines.



### Affordable and Easy to Use

The Barracuda NextGen Firewall X-Series is the first next-generation firewall to combine application control, user awareness, network firewall, and content security with the elasticity of the cloud. Unmatched ease of use means there's no need for additional IT staff or special training, and with the Barracuda NextGen Firewall X affordable, all-inclusive pricing, you can rest assured that there won't be any surprise costs down the road.

*Typically, performance decreases as features are enabled. But the Barracuda NextGen Firewall X-Series has provided me with all of the features I need, while improving overall network performance.*

*Chris Wade  
Network Administrator  
Township of West Windsor*

## Technical Specs

### Firewall

- Stateful packet forwarding
- Full user-identity awareness
- Intrusion Prevention (IPS)
- Application Control and enforcement (incl. subtypes)
- SafeSearch Enforcement
- Google Accounts Enforcement
- DoS/DDoS denial of service protection
- Transparent DNAT forward
- NAT, PAT
- Object-oriented rulesets
- Dynamic rules/timer triggers
- User/group-based firewall rules
- High Availability
- ARP security
- Bridging
- Jumbo frame support

### User Identity Awareness

- Terminal Server Agent
- Domain Controller Agent
- Full user and group membership awareness
- Authentication via captive portal
- Authentication – supports NTLM, RADIUS, LDAP/LDAPS, Active Directory, local authentication
- Authentication browser for AD and LDAP servers

### Infrastructure Services

- DHCP server
- HTTP proxy
- SIP proxy
- DNS cache
- Authoritative DNS
- SNMP support

### Traffic Optimization

- Uplink monitoring and aggregation
- Policy routing
- Application-based provider selection
- Traffic shaping and Quality of Service
- 7 predefined shaping bands
- Health checks for static links / routes via ICMP

### VPN

- Unlimited Site-to-Site VPN licensing
- Unlimited Client-to-Site VPN licensing
- Unlimited SSL VPN
- VPNC certified (basic interoperability)
- Supports IPsec, PPTP
- Supports AES-128/256, 3DES, DES, null ciphers
- VPN clients available for Windows, Mac, Linux
- iOS and Android mobile device VPN support

### Wi-Fi (on selected models)

- Wi-Fi (802.11n) access point
- Up to three independent wireless networks
- Click-through Wi-Fi portal web page for guest access

### Advanced Threat Protection

- Dynamic, on-demand analysis of malware programs (sandboxing)
- Dynamic analysis of documents with embedded exploits (PDF, Office, etc.)
- Detailed forensics for both, malware binaries and web threats (exploits)
- Support for multiple operating systems (Windows, Android, etc.)
- Flexible malware analysis in the cloud

## Support Options

### Barracuda Energize Updates

- Firmware updates
- IPS signature updates
- Application control updates
- Standard technical support

### Instant Replacement Service

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

## Security Options

- “Web Security” provides category-based web filtering (both online or on-box) and virus protection (online or on-box)
- “Advanced Threat Protection” provides file-type-based protection against advanced malware and cloud-based sandboxing
- “Advanced Remote Access” provides unlimited remote access via the CudaLaunch app available for Windows, macOS, iOS, and Android devices

MODEL COMPARISON	X50	X100	X200	X300	X400	X600
<b>CAPACITY</b>						
Maximum Firewall Throughput <sup>1</sup>	800 Mbps	1,000 Mbps	1,900 Mbps	2,100 Mbps	4,000 Mbps	6,000 Mbps
VPN Throughput <sup>2</sup>	50 Mbps	100 Mbps	200 Mbps	300 Mbps	600 Mbps	800 Mbps
IPS & Application Control Throughput	100 Mbps	300 Mbps	400 Mbps	650 Mbps	2,000 Mbps	3,000 Mbps
Max. Concurrent Sessions	8,000	8,000	60,000	120,000	300,000	500,000
Max. New Sessions/second	2,000	2,000	8,000	12,000	15,000	20,000
Max. Recommended AppDetect Users	50	100	200	300	500	1,000
Max. Recommended AppDetect & IPS Users	25	50	100	150	250	500
Max. Recommended AppDetect & IPS & Web Security Users	15	25	50	100	200	400
<b>HARDWARE</b>						
Form Factor	Desktop	Desktop	Desktop	1U rack mount	1U rack mount	1U rack mount
Dimensions (in)	10.8 x 6.4 x 1.8	10.8 x 6.4 x 1.8	10.8 x 6.4 x 1.8	14.9 x 6.4 x 1.8	16.8 x 15.9 x 1.7	16.8 x 15.9 x 1.7
1 GbE Copper Ethernet NICs	4x	4x	4x	6x	8x	8x
Power Supply	Single external	Single external	Single external	Single external	Single internal	Single internal
Integrated Wi-Fi Access Point	X51	X101	X201	-	-	-
<b>FEATURES</b>						
Firewall	•	•	•	•	•	•
IPsec VPN (Client-to-Site & Site-to-Site)	•	•	•	•	•	•
Application Control & Monitoring	•	•	•	•	•	•
Intrusion Prevention (IPS)	•	•	•	•	•	•
High Availability	•	•	•	•	•	•
SSL Interception <sup>3,4</sup>	•	•	•	•	•	•
DHCP Server	•	•	•	•	•	•
DNS Cache	•	•	•	•	•	•
Authoritative DNS	•	•	•	•	•	•
SIP Proxy	•	•	•	•	•	•
Automatic Uplink Failover & Uplink Balancing	•	•	•	•	•	•
Application-based Provider Selection	•	•	•	•	•	•
Traffic Management & Optimization	•	•	•	•	•	•
SafeSearch Enforcement	•	•	•	•	•	•
SSL VPN	•	•	•	•	•	•
Web Security (web filtering, antivirus)	Optional	Optional	Optional	Optional	Optional	Optional
Advanced Threat Protection	Optional	Optional	Optional	Optional	Optional	Optional
Advanced Remote Access	Optional	Optional	Optional	Optional	Optional	Optional
Centrally Manageable	Cloud-based	Cloud-based	Cloud-based	Cloud-based	Cloud-based	Cloud-based

<sup>1</sup> Measured with UDP; large packets      <sup>3</sup> SSL Interception including IPS requires an active Barracuda Energize Updates subscription

<sup>2</sup> Measured with AES; MDS

<sup>4</sup> SSL Interception including virus protection requires an active Web Security subscription

Specifications subject to change without notice.