

# **DCFW-1800E Series Next-Generation Firewalls**

# **Product Overview**

The DCN Next Generation Firewall (NGFW) provides comprehensive and granular visibility and control of applications. It can identify and prevent potential threats associated with high-risk applications while providing policy-based control over applications, users, and user-groups. Policies can be defined that guarantee bandwidth to mission-critical applications while restricting or blocking unauthorized or malicious applications. The DCN NGFW incorporates comprehensive network security and advanced firewall features, provides superior performance, excellent energy efficiency, and comprehensive threat prevention capability.



Deployment flexibility to protect all locations

Simple and consistent management



# **Model and Appearance of DCFW-1800E Series**

Appearance	Description
	Carrier-grade 10G Security Gateway
	32Gbps Throughput
	8Gbps Anti-virus Throughput
O Proposed framework &	15Gbps IPS Throughput
	12 million Concurrent Connections
	50000 Concurrent Users
D GEVY 4000F N00 40	10000 SSL VPNs
DCFW-1800E-N9040	Recommended export bandwidth: 5Gbps
	Carrier-grade Gigabit Security Gateway
	16Gbps Throughput
	3.5Gbps Anti-virus Throughput
DCN	5Gbps IPS Throughput
	6 million Concurrent Connections
	20000 Concurrent Users
DCFW-1800E-N8420	10000 SSL VPNs
	Recommended export bandwidth: 1.5Gbps
	Carrier-grade Gigabit Security Gateway
	8Gbps throughput
	1.6Gbps Anti-virus Throughput
	3Gbps IPS Throughput
	3 million Concurrent Connections
- C	8000 Concurrent Users
DCFW-1800E-N7210	4000 SSL VPNs
	Recommended export bandwidth: 800Mbps  Campus-grade Gigabit Security Gateway
	4Gbps throughput
	700Mbps Anti-virus throughput
	1Gbps IPS Throughput
SERVICES : THE SERVICES SERVIC	2 million Concurrent Connections
	2000 Concurrent Users
DCFW-1800E-N6008	1000 SSL VPNs
DCI W-1000E-110000	Recommended export bandwidth: 350Mbps
	SMB-grade Security Gateway
	2Gbps throughput
	400Mbps Anti-virus throughput
DEN SAME	600Mbps IPS Throughput
DEN 90000 ; □	1 million Concurrent Connections
DCEW 1900E N5005	800 Concurrent Users
DCFW-1800E-N5005	500 SSL VPNs
	Recommended export bandwidth: 150Mbps
	SMB-grade Security Gateway
	1Gbps throughput
	300Mbps Anti-virus throughput
DCN 0000000	400Mbps IPS Throughput
= L/	200 thousand Concurrent Connections
DCFW-1800E-N3002	150 Concurrent Users
251 15502115502	128 SSL VPNs
	Recommended export bandwidth: 80Mbps





SMB-grade Security Gateway with Wi-Fi 1Gbps throughput 300Mbps Anti-virus throughput 400Mbps IPS Throughput 200 thousand Concurrent Connections 150 Concurrent Users 128 SSL VPNs Recommended export bandwidth: 80Mbps



## **Key Features and Highlights**

**Granular Application Identification and Control** 

The DCFW-1800E NGFW provides fine-grained control of web applications regardless of port, protocol, or evasive action. It can identify and prevent potential threats associated with high-risk applications while providing policy-based control over applications, users, and user-groups. Security Policies can be defined that guarantee bandwidth to mission-critical applications while restricting or blocking unauthorized or malicious applications.

# **Control Comprehensive Threat Detection and Prevention**

The DCFW-1800E NGFW provides real-time protection for applications from network attacks including viruses, spyware, worms, botnets, ARP spoofing, DoS/DDoS, Trojans, buffer overflows, and SQL injections. It incorporates a unified threat detection engine that shares packet details with multiple security engines (AD, IPS, URL filtering, Anti-Virus, etc.), which significantly enhances the protection efficiency and reduces network latency.

#### **Network Services**

- Dynamic routing (OSPF, BGP, RIPv2)
- Static and Policy routing
- Route controlled by an application
- Built-in DHCP, NTP, DNS Server, and DNS proxy
- Tap mode connects to SPAN port
- Interface modes: sniffer, port aggregated, loopback, VLANS (802.1Q and Trunking)
- L2/L3 switching & routing
- Virtual wire (Layer 1) transparent inline deployment

#### **Firewall**

- Operating modes: NAT/route, transparent (bridge), and mixed-mode
- Policy objects: predefined, custom, and object grouping
- Security policy based on application, role, and geo-location
- Application Level Gateways and session support: MSRCP, PPTP, RAS, RSH, SIP, FTP, TFTP, HTTP, DCE/RPC, DNS-TCP, DNS-UDP, H.245 0, H.245 1, H.323
- NAT and ALG support: NAT46, NAT64, NAT444, SNAT, DNAT, PAT, Full Cone NAT, STUN
- NAT configuration: per policy and central NAT table
- VoIP: SIP/H.323/SCCP NAT traversal, RTP pin holing
- Global policy management view
- Security policy redundancy inspection
- Schedules: one-time and recurring

#### **Intrusion Prevention**

- Protocol anomaly detection, rate-based detection, custom signatures, manual, automatic push or pull signature updates, integrated threat encyclopedia
- IPS Actions: default, monitor, block, reset (attackers IP or victim IP, incoming interface) with an expiry time
- Packet logging option
- Filter Based Selection: severity, target, OS, application or protocol
- IP exemption from specific IPS signatures
- IDS sniffer mode
- IPv4 and IPv6 rate-based DoS protection with threshold settings against TCP Syn flood, TCP/UDP/SCTP port scan, ICMP sweep, TCP/UDP/SCIP/ICMP session flooding (source/destination)
- Active bypass with bypass interfaces
- Predefined prevention configuration

#### **Anti-Virus**

- Manual, automatic push or pull signature updates
- Flow-based Antivirus: protocols include HTTP, SMTP, POP3, IMAP, FTP/SFTP
- · Compressed file virus scanning

#### **Attack Defense**

- Abnormal protocol attack defense
- Anti-DoS/DDoS, including SYN Flood, DNS Query Flood defense
- · ARP attack defense

#### **URL Filtering**

- Flow-based web filtering inspection
- Manually defined web filtering based on URL, web content, and MIME header
- Dynamic web filtering with cloud-based real-time categorization database: over 140 million URLs with 64 categories (8 of which are security related)
- Additional web filtering features:
- Filter Java Applet, ActiveX, or cookie
- Block HTTP Post
- Log search keywords
- Exempt scanning encrypted connections on certain categories for privacy
- Web filtering profile override: allows the administrator to temporarily assign different profiles to user/group/IP
- Web filter local categories and category rating override

#### **IP Reputation**

• Botnet server IP blocking with global IP reputation database



#### **SSL Decryption**

- Application identification for SSL encrypted traffic
- IPS enablement for SSL encrypted traffic
- AV enablement for SSL encrypted traffic
- URL filter for SSL encrypted traffic
- SSL Encrypted traffic whitelist
- SSL proxy offload mode

#### **Endpoint Identification**

- Support to identify endpoint IP, endpoint quantity, on-line time, off-line time, and on-line duration
- Support 2 operation systems
- Support query based on IP and endpoint quantity

#### **File Transfer Control**

- File transfer control based on the file name, type, and size
- File protocol identification, including HTTP, HTTPS, FTP, SMTP, POP3, and SMB protocols
- File signature and suffix identification for over 100 file types

#### **Application Control**

- Over 3,000 applications that can be filtered by name, category, subcategory, technology, and risk
- Each application contains a description, risk factors, dependencies, typical ports used, and URLs for additional reference
- Actions: block, reset session, monitor, traffic shaping
- Identify and control cloud applications in the cloud
- Provide multi-dimensional monitoring and statistics for cloud applications, including risk category and characteristics

#### **Quality of Service (QoS)**

- Max/guaranteed bandwidth tunnels or IP/user basis
- Tunnel allocation based on security domain, interface, address, user/user group, server/server group, application/app group, TOS, VLAN
- Bandwidth allocated by time, priority, or equal bandwidth sharing
- Type of Service (TOS) and Differentiated Services (DiffServ) support
- Prioritized allocation of remaining bandwidth
- Maximum concurrent connections per IP

#### **Server Load balancing**

- Weighted hashing, weighted least-connection, and weighted round-robin
- Session protection, session persistence, and session status monitoring
- Server health check, session monitoring, and session protection

## **Link Load balancing**

- · Bi-directional link load balancing
- · Outbound link load balancing includes policy-based

- routing, ECMP and weighted, embedded ISP routing and dynamic detection
- Inbound link load balancing supports Smart DNS and dynamic detection
- Automatic link switching based on bandwidth, latency, jitter, connectivity, application, etc.
- Link health inspection with ARP, PING, and DNS

#### **VPN**

- IPSec VPN
- IPSEC Phase 1 mode: aggressive and main ID protection mode
- Peer acceptance options: any ID, specific ID, ID in a dialup user group
- Supports IKEv1 and IKEv2 (RFC 4306)
- Authentication method: certificate and pre-shared key
- IKE mode configuration support (as server or client)
- DHCP over IPSEC
- Configurable IKE encryption key expiry, NAT traversal keep-alive frequency
- Phase 1/Phase 2 Proposal encryption: DES, 3DES, AES128, AES192, AES256
- Phase 1/Phase 2 Proposal authentication: MD5, SHA1, SHA256, SHA384, SHA512
- Phase 1/Phase 2 Diffie-Hellman support: 1,2,5
- XAuth as server mode and for dialup users
- Dead peer detection
- Replay detection
- Autokey keep-alive for Phase 2 SA
- IPSEC VPN realm support: allows multiple custom SSL VPN logins associated with user groups (URL paths, design)
- IPSEC VPN configuration options: route-based or policy-based
- IPSEC VPN deployment modes: gateway-to-gateway, full mesh, hub-and-spoke, redundant tunnel, VPN termination in transparent mode
- One-time login prevents concurrent logins with the same username
- SSL portal concurrent users limiting
- SSL VPN port forwarding module encrypts client data and sends the data to the application server
- Supports clients that run iOS, Android, and Windows XP/Vista including 64-bit Windows OS
- Host integrity checking and OS checking before SSL tunnel connections
- MAC host check per portal
- Cache cleaning option before ending SSL VPN session
- L2TP client and server mode, L2TP over IPSEC, and GRE over IPSEC
- View and manage IPSEC and SSL VPN connections
- PnPVPN

#### IPv6

- Management over IPv6, IPv6 logging, and HA
- IPv6 tunneling, DNS64/NAT64, etc
- IPv6 routing protocols, static routing, policy routing,



#### ISIS, RIPng, OSPFv3, and BGP4+

• IPS, Application identification, Access control, ND attack defense

#### **VSYS**

- System resource allocation to each VSYS
- CPU virtualization
- Non-root VSYS support firewall, IPSec VPN, SSL VPN, IPS, URL filtering
- VSYS monitoring and statistic

## **High Availability**

- Redundant heartbeat interfaces
- Active/Active and Active/Passive
- Standalone session synchronization
- HA reserved management interface
- Failover:
- Port, local & remote link monitoring
- Stateful failover
- Sub-second failover
- Failure notification
- Deployment options:
- HA with link aggregation
- Full mesh HA
- Geographically dispersed HA

#### **User and Device Identity**

- Local user database
- Remote user authentication: TACACS+, LDAP, Radius, Active
- Single-sign-on: Windows AD
- 2-factor authentication: 3rd party support, integrated token server with physical and SMS
- User and device-based policies
- User group synchronization based on AD and LDAP
- Support for 802.1X, SSO Proxy

#### Administration

- Management access: HTTP/HTTPS, SSH, telnet, console
- System Integration: SNMP, Syslog, alliance partnerships
- Rapid deployment: USB auto-install, local and remote script execution
- Dynamic real-time dashboard status and drill-in monitoring widgets
- Language support: English

#### **Logs & Reporting**

- Logging facilities: local memory and storage (if available), multiple Syslog servers
- Encrypted logging and scheduled batch log uploading
- Reliable logging using TCP option (RFC 3195)
- Detailed traffic logs: forwarded, violated sessions, local traffic, invalid packets, URL, etc.
- Comprehensive event logs: system and administrative activity audits, routing & networking, VPN, user authentications
- IP and service port name resolution option
- Brief traffic log format option
- Three predefined reports: Security, Flow, and network reports
- User-defined reporting
- Reports can be exported in PDF via Email and FTP

# **Specifications**

Model	N9040	N8420	N7210	N6008
Hardware Specification				
DRAM Memory (Standard/Max)	16GB	8GB	2GB	2GB
Flash	512MB			
Management Interface	1*Console, 1*AUX, 1*USB2.0, 1*HA, 1*MGT			



Physical Interface					
Expansion Slot	Physical Interface		included) 4*GE SFP		4* SFP/GE
MFW-1800E-8GT   MFW-1800E-4GT-   MFW-1800E-4GT-	Expansion Slot	4		2	NA
Voltage Range		MFW-1800E-8GB MFW-1800E-4GT- B MFW-1800E-4GT-P MFW-N90-2XFP	MFW-1800E-8GB MFW-1800E-4GT- B MFW-1800E-4GT-P MFW-N90-2XFP	MFW-1800E-8GB MFW-1800E-4GT- B	NA
Mounting         2U rack         1U rack           Dimension (W x D x H)         440.0mm×520.0mm ×88.0mm ×88.0mm ×88.0mm ×88.0mm ×88.0mm ×88.0mm         446.0mm×366.0mm ×44.0mm ×44.0mm         442.0mm×241.0mm×241.0mm×241.0mm×44.0mm           Weight         12.3Kg         11.8Kg         5.6Kg         2.5Kg           Working Temperature Working Humidity         0-40°C         10.95%(non-condensing)         10.95%(non-condensing)           Product Performance           Throughput (Standard/max)         32Gbps         16Gbps         8Gbps         2.5/4Gbps           IPSec Throughput (Standard/max)         18Gbps         8Gbps         3.5Gbps         1.6Gbps         700Mbps           IPS Throughput 15Gbps         5Gbps         3.3Gbps         1.6Bps         10.00mm         40.00mm		Dual hot-swap	•		· ·
Dimension (W x D x H)			· · · · · · · · · · · · · · · · · · ·		
Wx Dx H	Mounting	2U 1	rack	1U rac	k
Weight         12.3Kg         11.8Kg         5.6Kg         2.5Kg           Working Temperature         0-40°C         0-40°C         0-40°C           Working Humidity         10-95%(non-condensing)         0-40°C         0-40°C           Product Performance           Throughput (Standard/max)         32Gbps         16Gbps         8Gbps         2.5/4Gbps           PSec Throughput Anti-virus Throughput (Standard/max)         18Gbps         3.5Gbps         1.6Gbps         700Mbps           Anti-virus Throughput (Standard/Max)         15Gbps         5Gbps         3Gbps         1Gbps           Concurrent Connections (Standard/Max)         12M         6M         3M         1M/2M           New TCP Connections per second         340K         150K         75K         26K           New TCP Connections per second         500K         200K         120K         50K           Feature Parameters           Max service/group entries         6000         6000         2048         512           Max policy entries         40000         40000         8000         2000           Max IPv4 address entries         16384         8192         8192         4096           Max IPve tunnels         20000         8/					
Working Temperature         0-40°C           Working Humidity         10-95%(non-condensing)           Product Performance         Throughput (Standard/max)           TSec Throughput         18Gbps         8Gbps         3Gbps         1Gbps           Anti-virus Throughput         15Gbps         5Gbps         1.6Gbps         700Mbps           IPS Throughput         15Gbps         5Gbps         3Gbps         1Gbps           Concurrent Connections (Standard/Max)         12M         6M         3M         1M/2M           New HTTP Connections per second         340K         150K         75K         26K           New TCP Connections per second         500K         200K         120K         50K           Feature Parameters         Max service/group entries         6000         6000         2048         512           Max policy entries         40000         40000         8000         2000           Max IPv4 address entries         16384         8192         8192         4096           Max IPsec tunnels         20000         20000         6000         2000           Concurrent Users (Standard/Max)         8/50000         8/20000         8/8000         8/2000           SSL VPN connection (Standard/Max)	(W x D x H)	×88.0mm	×88.0mm	×44.0mm	0mm×44.0mm
Working Humidity         10-95%(non-condensing)           Product Performance         Throughput (Standard/max)         32Gbps         16Gbps         8Gbps         2.5/4Gbps           IPS Throughput         18Gbps         3.5Gbps         1.6Gbps         700Mbps           IPS Throughput         15Gbps         5Gbps         1.6Gbps         700Mbps           IPS Throughput         15Gbps         3.5Gbps         1.6Gbps         700Mbps           IPS Throughput         15Gbps         3.5Gbps         1.6Gbps         700Mbps           Concurrent Connection         50K         20K         20K         20K         20K<	Weight	12.3Kg	<u> </u>		2.5Kg
Product Performance	Working Temperature		0-40°C		
Throughput (Standard/max)   32Gbps   16Gbps   8Gbps   2.5/4Gbps     IPSec Throughput   18Gbps   8Gbps   3.5Gbps   1.6Gbps     Anti-virus Throughput   15Gbps   5Gbps   3Gbps   1.6Gbps     IPS Throughput   15Gbps   5Gbps   3Gbps   1.6Gbps     IPS Throughput   15Gbps   5Gbps   3Gbps   1.6Gbps     Concurrent Connections (Standard/Max)   12M   6M   3M   1M/2M     New HTTP Connections per second   340K   150K   75K   26K     New TCP Connections per second   500K   200K   120K   50K     Feature Parameters     Max service/group entries   40000   40000   8000   2000     Max policy entries   40000   40000   8000   2000     Max policy entries   16384   8192   8192   4096     Max IPv4 address entries   16384   8192   8192   4096     Max IPsec tunnels   20000   20000   6000   2000     Concurrent Users (Standard/Max)   8/50000   8/20000   8/8000   8/2000     SSL VPN connection (Standard/Max)   8/10000   8/10000   8/4000   8/1000     Max routes (IPv4 Only version)   30000   30000   10000   4000     Max VSYS supported   250   250   50   5	Working Humidity		10-95%(non-co	ondensing)	
Standard/max   S2Gops   SGops   S2,5/4Gops     IPSec Throughput   18Gops   8Gops   3Gops   1Gops     Anti-virus Throughput   15Gops   3.5Gops   1.6Gops   700Mbps     IPS Throughput   15Gops   5Gops   3Gops   1Gops     IPS Throughput   15Gops   5Gops   3Gops   1Gops     Concurrent Connections (Standard/Max)   12M   6M   3M   1M/2M     New HTTP Connections per second   340K   150K   75K   26K     New TCP Connections per second   500K   200K   120K   50K     Feature Parameters	<b>Product Performance</b>				
IPSec Throughput		32Gbps	16Gbps	8Gbps	2.5/4Gbps
TPS Throughput		18Gbps	8Gbps	3Gbps	1Gbps
Concurrent Connections (Standard/Max)         12M         6M         3M         1M/2M           New HTTP Connections per second         340K         150K         75K         26K           New TCP Connections per second         500K         200K         120K         50K           Feature Parameters         Max service/group entries         6000         6000         2048         512           Max policy entries         40000         40000         8000         2000           Max IPv4 address entries         16384         8192         8192         4096           Max IPsec tunnels         20000         20000         6000         2000           Concurrent Users (Standard/Max)         8/50000         8/20000         8/8000         8/2000           SSL VPN connection (Standard/Max)         8/10000         8/10000         8/4000         8/1000           Max routes (IPv4 Only version)         30000         30000         10000         4000           Max VSYS supported         250         250         50         5	Anti-virus Throughput	8Gbps	3.5Gbps	1.6Gbps	700Mbps
New HTTP Connections per second   340K   150K   75K   26K	IPS Throughput	15Gbps	5Gbps	3Gbps	1Gbps
New TCP Connections per second   500K   200K   120K   50K		12M	6M	3M	1M/2M
SOOK		340K	150K	75K	26K
Max service/group entries         6000         6000         2048         512           Max policy entries         40000         40000         8000         2000           Max zone number         512         512         256         128           Max IPv4 address entries         16384         8192         8192         4096           Max IPsec tunnels         20000         20000         6000         2000           Concurrent Users (Standard/Max)         8/50000         8/20000         8/8000         8/2000           SSL VPN connection (Standard/Max)         8/10000         8/10000         8/4000         8/1000           Max routes (IPv4 Only version)         30000         30000         10000         4000           Max VSYS supported         250         250         50         5		500K	200K	120K	50K
tries         8000         6000         2048         512           Max policy entries         40000         40000         8000         2000           Max zone number         512         512         256         128           Max IPv4 address entries         16384         8192         8192         4096           Max IPsec tunnels         20000         20000         6000         2000           Concurrent Users (Standard/Max)         8/50000         8/20000         8/8000         8/2000           SSL VPN connection (Standard/Max)         8/10000         8/10000         8/4000         8/1000           Max routes (IPv4 Only version)         30000         30000         10000         4000           Max VSYS supported         250         250         50         5					
Max zone number         512         512         256         128           Max IPv4 address entries         16384         8192         8192         4096           Max IPsec tunnels         20000         20000         6000         2000           Concurrent Users (Standard/Max)         8/50000         8/20000         8/8000         8/2000           SSL VPN connection (Standard/Max)         8/10000         8/10000         8/4000         8/1000           Max routes (IPv4 Only version)         30000         30000         10000         4000           Max VSYS supported         250         250         50         5	tries	6000		2048	512
Max IPv4 address entries         16384         8192         8192         4096           Max IPsec tunnels         20000         20000         6000         2000           Concurrent Users (Standard/Max)         8/50000         8/20000         8/8000         8/2000           SSL VPN connection (Standard/Max)         8/10000         8/10000         8/4000         8/1000           Max routes (IPv4 Only version)         30000         30000         10000         4000           Max VSYS supported         250         250         50         5					
tries         16384         8192         8192         4096           Max IPsec tunnels         20000         20000         6000         2000           Concurrent Users (Standard/Max)         8/50000         8/20000         8/8000         8/2000           SSL VPN connection (Standard/Max)         8/10000         8/10000         8/4000         8/1000           Max routes (IPv4 Only version)         30000         30000         10000         4000           Max VSYS supported         250         250         50         5	Max zone number	512	512	256	128
Concurrent Users (Standard/Max)         8/50000         8/20000         8/8000         8/2000           SSL VPN connection (Standard/Max)         8/10000         8/10000         8/4000         8/1000           Max routes (IPv4 Only version)         30000         30000         10000         4000           Max VSYS supported         250         250         50         5		16384	8192	8192	4096
(Standard/Max)         8/50000         8/20000         8/8000         8/2000           SSL VPN connection (Standard/Max)         8/10000         8/10000         8/4000         8/1000           Max routes (IPv4 Only version)         30000         30000         10000         4000           Max VSYS supported         250         250         50         5	Max IPsec tunnels	20000	20000	6000	2000
(Standard/Max)         8/10000         8/10000         8/10000           Max routes (IPv4 Only version)         30000         30000         10000         4000           Max VSYS supported         250         250         50         5		8/50000	8/20000	8/8000	8/2000
version)         30000         30000         10000         4000           Max VSYS supported         250         250         50         5		8/10000	8/10000	8/4000	8/1000
	` `	30000	30000	10000	4000
Max virtual router         250         250         50         5	Max VSYS supported	250	250	50	5
	Max virtual router	250	250	50	5
<b>Max GRE tunnels</b> 1024 1024 256 128	Max GRE tunnels	1024	1024	256	128

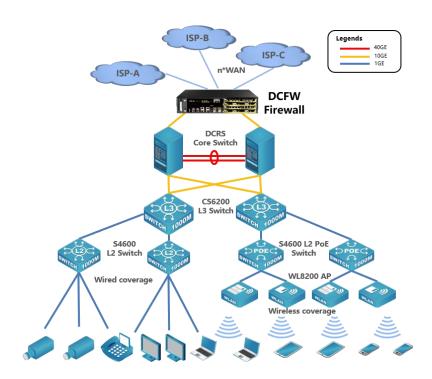


Model	N5005	N3002	N2002
Hardware Specification	113003	145002	112002
•	4.00	4.00	1.GD
DRAM Memory (Standard/Max)	2GB	1GB	1GB
Flash		512MB	
Management Interface		1*Console, 1*USB2.0	
Physical Interface		9*GE RJ45	
Expansion Slot		NA	
Expansion Module		NA	
Power	Single power, 45W	30W	30W
Voltage Range		100-240V AC, 50/60Hz	
Mounting	1U	rack	desktop
Dimension (WxDxH)	442.0mm×241.0mm ×44.0mm	442.0mm×241.0mm ×44.0mm	320.0mmx150.0mm x 44.0mm
Weight	2.5kg	2.5kg	1.5kg
Working Temperature		0-40℃	
Working Humidity	1	0-95%(non-condensing	)
<b>Product Performance</b>			
Throughput (Standard/Max)	1.5/2Gbps	1Gbps	1Gbps
IPSec Throughput	700Mbps	600Mbps	600Mbps
Anti-virus Throughput	400Mbps	300Mbps	300Mbps
IPS Throughput	600Mbps	400Mbps	400Mbps
Concurrent Connections (Standard/Max)	600K/1M	200K	200K
New HTTP Connections per second	15K	8K	8K
New TCP Connections per second	25K	10K	10K
Feature Parameters			
Max service/group entries	512	256	256
Max policy entries	1000	1000	1000
Max zone number	32	16	16
Max IPv4 address entries	512	512	512
Max IPsec tunnels	2000	512	512
Concurrent Users (Standard/Max)	8/800	8/150	8/150
SSL VPN connection (Standard/Max)	8/500	8/128	8/128
Max routes (IPv4 Only version)	1024	512	512
Max VSYS supported		NA	
Max virtual router	2	2	2
Max GRE tunnels	32	8	8



# **Typical Application**

For enterprises and service providers, DCFW-1800E NGFW can manage all of their security risks with the industry's best-of-breed IPS, SSL inspection, and threat protection. The DCFW-1800E series can be deployed at the enterprise edge, the hybrid data center, and across internal segments. The multiple high-speed interfaces, high port density, superior security efficacy, and high throughput of this series keep your network connected and secure.



# **Order Information**

NGFW Firewall		
DCFW-1800E-N9040	Carrier-class high-end 10G security gateway Maximum expansion to 42 x 1G interfaces, 16 x 10G interfaces. Default with 4 x 10/100/1000 Base-T ports, 4 x 1G SFP ports, one HA interface, one management port, four expansion slots, hot-swap dual power supply redundancy design.	
DCFW-1800E-N8420	Carrier-class high-end Gigabits security gateway Maximum expansion to 42 x 1G interfaces, 18 x 10G interfaces. Default with 4 x 10/100/1000 Base-T ports (Include two bypass ports), 4 x 1G SFP ports, 2 x SFP+ ports, one HA interface, one management port, four expansion slots, hot-swap dual power supply redundancy design.	
DCFW-1800E-N7210	Carrier-class high-end Gigabits security gateway Maximum expansion to 28 x 1G interfaces. Default with 6 x 10/100/1000 Base- ports, 4 x 1G SFP ports, one HA interface, one management port, two expansion slots, hot-swap dual power supply redundancy design.	
MFW-1800E-8GT	8 x 10/100/1000 Base-T ports module, could be used on N9040, N8420, and N7210.	
MFW-1800E-8GB	8 x 1G SFP ports module, could be used on N9040, N8420 and N7210.	
MFW-1800E-4GT-B	4 x 10/100/1000 Base-T ports bypass module, could be used on N9040, N8420, and N7210.	



MFW-1800E-4GT-P	4 x 10/100/1000 Base-T ports PoE module, could be used on N9040, N8420, and N7210.	
MFW-N90-2XFP	2 x 10G XFP ports model, could be used on N9040 and N8420.	
MFW-N90-4XFP	4 x 10G XFP ports model, could be used on N9040 and N8420.	
MFW-1800E-8SFP+	8 x 10G SFP+ ports model, could be used on N9040 and N8420.	
DCFW-1800E-N6008	Large campus-level Gigabit security gateway 5 x 10/100/1000M Base-T ports, 4 Gigabit Combo ports, dual power supply redundancy design	
DCFW-1800E-N5005	Small and medium enterprise-class security gateway 9 x 10/100/1000M Ethernet ports, 1U	
DCFW-1800E-N3002	Small and medium enterprise-class security gateway 9 x 10/100/1000M Ethernet ports, 1U	
DCFW-1800E-N2002	Small enterprise-class security gateway 9 x 10/100/1000M Ethernet ports, integrated Wi-Fi module, support external 3G module, 1U desktop box, could not be installed on a 19-inch rack.	
License for NGFW		
DCFW-SSL-License-10	DCFW-SSL-License for 10 users (Need to be used with security gateway)	
DCFW-SSL-License-50	DCFW-SSL-License for 50 users (Need to be used with security gateway)	
DCFW-SSL-License-100	DCFW-SSL-License for 100 users (Need to be used with security gateway)	
DCFW-SSL-UK10	10 SSL VPN hardware USB Key (Need to be used with security gateway)	
USG-N9040-LIC-3Y	3 years upgrade license of all USG feature library for DCFW-1800E-N9040 Including: 3 years virus database upgrade license 3 years URL classification library upgrade license 3 years IPS feature library upgrade license 3 years application feature library upgrade license	
USG-N9040-LIC	1-year upgrade license of all USG feature library for DCFW-1800E-N9040 Including: 1-year virus database upgrade license 1-year URL classification library upgrade license 1-year IPS feature library upgrade license 1-year application feature library upgrade license	
USG-N8420-LIC-3Y	3 years upgrade license of all USG feature library for DCFW-1800E-N8420 Including: 3 years virus database upgrade license 3 years URL classification library upgrade license 3 years IPS feature library upgrade license 3 years application feature library upgrade license	
USG-N8420-LIC	1-year upgrade license of all USG feature library for DCFW-1800E-N8420 Including: 1-year virus database upgrade license 1-year URL classification library upgrade license 1-year IPS feature library upgrade license 1-year application feature library upgrade license	

Email: sales@dcnglobal.com Website:www.dcnglobal.com



USG-N7210-LIC-3Y	3 years upgrade license of all USG feature library for DCFW-1800E-N7210 Including: 3 years virus database upgrade license 3 years URL classification library upgrade license 3 years IPS feature library upgrade license 3 years application feature library upgrade license
USG-N7210-LIC	1-year upgrade license of all USG feature library for DCFW-1800E-N7210 Including: 1-year virus database upgrade license 1-year URL classification library upgrade license 1-year IPS feature library upgrade license 1-year application feature library upgrade license
USG-N6008-LIC-3Y	3 years upgrade license of all USG feature library for DCFW-1800E-N6008 Including: 3 years virus database upgrade license 3 years URL classification library upgrade license 3 years IPS feature library upgrade license 3 years application feature library upgrade license
USG-N6008-LIC	1-year upgrade license of all USG feature library for DCFW-1800E-N6008 Including: 1-year virus database upgrade license 1-year URL classification library upgrade license 1-year IPS feature library upgrade license 1-year application feature library upgrade license
USG-N5005-LIC-3Y	3 years upgrade license of all USG feature library for DCFW-1800E-N5005 Including: 3 years virus database upgrade license 3 years URL classification library upgrade license 3 years IPS feature library upgrade license 3 years application feature library upgrade license
USG-N5005-LIC	1-year upgrade license of all USG feature library for DCFW-1800E-N5005 Including: 1-year virus database upgrade license 1-year URL classification library upgrade license 1-year IPS feature library upgrade license 1-year application feature library upgrade license
USG-N3002-LIC-3Y	3 years upgrade license of all USG feature library for DCFW-1800E-N3002 Including: 3 years virus database upgrade license 3 years URL classification library upgrade license 3 years IPS feature library upgrade license 3 years application feature library upgrade license
USG-N3002-LIC	1-year upgrade license of all USG feature library for DCFW-1800E-N3002 Including: 1-year virus database upgrade license 1-year URL classification library upgrade license 1-year IPS feature library upgrade license 1-year application feature library upgrade license
USG-N2002-LIC-3Y	3 years upgrade license of all USG feature library for DCFW-1800E-N2002 Including: 3 years virus database upgrade license 3 years URL classification library upgrade license 3 years IPS feature library upgrade license 3 years application feature library upgrade license

Email: sales@dcnglobal.com Website:www.dcnglobal.com



USG-N2002-LIC	1-year upgrade license of all USG feature library for DCFW-1800E-N2002 Including: 1-year virus database upgrade license 1-year URL classification library upgrade license 1-year IPS feature library upgrade license 1-year application feature library upgrade license
---------------	---