L3 Gigabit Stack
Multi-Layer Routing Switch

- Up to 48 Gigabit Connections Per Switch
- 4 Combo 1000BASE-T/SFP Fiber
- 2 or 3 Open Slots for Optional 10-Gigabit Uplinks
- Virtual Stack or Physical High-Speed Stacking
- Robust Security With Enhanced Performance/Availability
- Malicious Traffic and Performance Degradation Prevention

Flexible Choices
- Up to 48 10/100/1000BASE-T Ports or 24 SFP Slots
- 4 Combo SFP or Combo 1000BASE-T
- 2 or 3 Open Slots for Optional Single-Port 10-Gigabit Uplinks
- Stackable Through 10-Gigabit Coaxial or Fiber Ports
- Optional External Redundant Power Supply

xStack Integration
- Virtual Stack of Up to 32 Units Using Single IP Management
- Physical Stackable to 12 Units, 576 Gigabit Ports

Quality of Service
- 802.1p Priority Queues/Multi-Layer CoS
- IP Multicast Support for Bandwidth-Intensive Applications

Security
- L2/L3/L4 Multi-Layer Access Control
- External RADIUS/TACACS+ Authentication Support
- SSH/SSL Support
- 802.1X Guest VLAN
- Web-Based Access Control (WAC)
- MAC-Based Access Control (MAC)
- D-Link Safeguard Engine
- Support Microsoft *MAP

Traffic Monitoring/Bandwidth Control
- Traffic Segmentation
- Granular Bandwidth Control Down to 64Kbps Per Port
- Granular Broadcast Storm Control Down to 1pps Per Port
- 802.3ad Link Aggregation
- RMON Support
- Port Mirroring

Configuration/Management
- Web-Based
- Command Line Interface (CLI)
- SNMP v1, v2c, v3
- D-Link Single IP Management (SIM) v.1.6
- Telnet Server
- Dual Images/Configurations

1. Calculation based on a stack of 12 DGS-3600 switches. DGS-3610G switch does not support ring stacking.
2. ZoneDefense technology available in future.

The xStack DGS-3600 series of next generation Layer 3 Gigabit switches delivers performance, flexibility, security, multi-layer QoS and access, and redundant power option for SMB and enterprises. With high Gigabit port densities, SFP support, 10-Gigabit uplink options and advanced software functions, these switches can act as departmental access-layer devices or core switches to form a multi-level network structured with high-speed backbone and centralized servers. Telecom service providers can also take advantage of the high SFP density switches to form the core of their fiber to the building (FTTB) network that extends to the subscribers’ sites.

Unparalleled Flexibility. Easy to deploy and simple to managed, the DGS-3600 series can be stacked with any switches supporting D-Link’s Single IP Management to form a multi-level network structured with backbone and centralized high-speed servers. This virtual stack can comprise units located anywhere on the same network domain, and uses the optional 10-Gigabit uplinks to move intra-stack traffic at 20Gbps full duplex. It can eliminate single points of failures, cable distance barriers, physical stacking method limitations and the need for stacking cabling.

Redundant Ring Stacking. Alternatively, users can install one or two 10-Gigabit uplinks, depending on whether the linear or fault-tolerant ring stacking is implemented, to create a physical stack. Up to 12 units or 576 Gigabit ports can be configured for a stack. Using the coaxial cable or fiber as the medium to stack switches together, the DGS-3600 series provides not only high-bandwidth stacking but also the cost control capability that allows users to add 10-Gigabit uplinks strictly as needed. Modules with single 10-Gigabit XFP can also be installed in any of the open slots for uplink to servers or a fiber backbone.

Security, Performance & Availability. The DGS-3600 series provides a complete set of security features, which includes L2/L3/L4 multi-layer Access Control Lists and 802.1x user authentication via TACACS+ and RADIUS servers. In addition, it offers suppression capabilities and Layer 3 IP v4/v6 Static Routing to increase network performance and security. Built-in D-Link ZoneDefense technology allows business to integrate the switch stack with D-Link NetDefend firewalls to implement a full coverage, proactive security architecture.

The DGS-3600 series offers extensive VLAN support including GARP/GVRP and 802.1Q VLAN to enhance security and performance. To support converged applications including VoIP, ERP, Intranet and video conference, a robust set of L2/L3/L4 QoS/CoS features ensures that critical network services are served with proper priority. To prevent malicious flooding traffic caused by worm/virus infections, the DGS-3600 series provides D-Link Safeguard Engine to increase the switch’s reliability, serviceability and availability. Bandwidth Control can be flexibly set for each port using pre-defined thresholds to assure a committed level of service for end users. For advanced applications, per-flow bandwidth control allows easy fine-tuning of service types based on specific IP addresses or protocols.
## Technical Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>DGS-3612</th>
<th>DGS-3612G</th>
<th>DGS-3627</th>
<th>DGS-3627G</th>
<th>DGS-3650</th>
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<tbody>
<tr>
<td><strong>Interface</strong></td>
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<tr>
<td>10/100/1000BASE-T Ports</td>
<td>12</td>
<td>-</td>
<td>24</td>
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<td>48</td>
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<tr>
<td>SFP Slots</td>
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<td>Combo SFP Slots</td>
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<tr>
<td>Combo 10/100/1000BASE-T Ports</td>
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<tr>
<td>Open Slot for 10-Gigabit Uplink Modules</td>
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<td>3</td>
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<td>RS-232 Console Port</td>
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<td><strong>Physical Stacking</strong></td>
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<tr>
<td>Installable Module for Stacking</td>
<td>-</td>
<td>-</td>
<td>Single-Port DEM-410CX or DEM-410X</td>
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<tr>
<td>Max Number of Stacking Ports Installable</td>
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<td>2 CX4 or XFP Ports</td>
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<tr>
<td>Stacking Speed (Per Port)</td>
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<td>200Gbps (Full-Duplex)</td>
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<td>No. of Units Per Stack</td>
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<td><strong>Optional 10-Gigabit Uplink</strong></td>
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<tr>
<td>Single XFP Slot Module (DEM-410X)</td>
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<tr>
<td>Single CX4 Port Module (DEM-410CX)</td>
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<tr>
<td><strong>Performance</strong></td>
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<tr>
<td>Switch Fabric</td>
<td>24Gbps</td>
<td>24Gbps</td>
<td>108Gbps</td>
<td>108Gbps</td>
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<td>Packet Forwarding Rate</td>
<td>17.86Mpps</td>
<td>17.86Mpps</td>
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<td>Packet Buffer</td>
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<tr>
<td>MAC Address Table</td>
<td>16K Entries</td>
<td>16K Entries</td>
<td>16K Entries</td>
<td>16K Entries</td>
<td>16K Entries</td>
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<tr>
<td>IP v4/v6 Routing Table</td>
<td>12K Entries</td>
<td>12K Entries</td>
<td>12K Entries</td>
<td>12K Entries</td>
<td>12K Entries</td>
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<tr>
<td>IP v6 Routing Table</td>
<td>6K Entries</td>
<td>6K Entries</td>
<td>6K Entries</td>
<td>6K Entries</td>
<td>6K Entries</td>
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<tr>
<td>IP v4 Host Table</td>
<td>8K Entries</td>
<td>8K Entries</td>
<td>8K Entries</td>
<td>8K Entries</td>
<td>8K Entries</td>
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<tr>
<td>IP v6 Host Table</td>
<td>4K Entries</td>
<td>4K Entries</td>
<td>4K Entries</td>
<td>4K Entries</td>
<td>4K Entries</td>
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<tr>
<td>Jumbo Frame Size</td>
<td>9,216 Bytes</td>
<td>9,216 Bytes</td>
<td>9,216 Bytes</td>
<td>9,216 Bytes</td>
<td>9,216 Bytes</td>
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<tr>
<td><strong>Power</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Power Supply</td>
<td>100 to 120VAC, 200 to 240VAC, 50/60Hz, Internal Power Supply</td>
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<td>Power Consumption (Max.)</td>
<td>60.0 Watts</td>
<td>60.0 Watts</td>
<td>72.3 Watts</td>
<td>77.0 Watts</td>
<td>131.3 Watts</td>
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<tr>
<td>Optional Redundant Power Supply</td>
<td>DPS-200</td>
<td>DPS-500</td>
<td>DPS-500</td>
<td>DPS-500</td>
<td>DPS-500</td>
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<td><strong>Physical/Environmental</strong></td>
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<td></td>
<td></td>
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<tr>
<td>Heat Dissipation</td>
<td>204.73 BTU/Hr</td>
<td>187.67 BTU/Hr</td>
<td>246.70 BTU/Hr</td>
<td>262.74 BTU/Hr</td>
<td>448.02 BTU/Hr</td>
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<tr>
<td>Acoustic</td>
<td>&lt;52.1dB</td>
<td>&lt;51.1dB</td>
<td>&lt;51.6dB</td>
<td>&lt;51.3dB</td>
<td>&lt;48.1dB</td>
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<tr>
<td>Dimensions</td>
<td>441 x 309 x 44 mm</td>
<td>441 x 389 x 44 mm</td>
<td>441 x 389 x 44 mm</td>
<td>441 x 389 x 44 mm</td>
<td>441 x 389 x 44 mm</td>
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<tr>
<td>Size</td>
<td>19-Inch Rack-Mount Width, 1U Height</td>
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<td></td>
<td></td>
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<tr>
<td>Weight (Without Optional Module)</td>
<td>3.7 kg</td>
<td>5.0 kg</td>
<td>5.5 kg</td>
<td>5.5 kg</td>
<td>5.7 kg</td>
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<td>Operating Temperature</td>
<td>0° to 40°C</td>
<td>0° to 40°C</td>
<td>0° to 40°C</td>
<td>0° to 40°C</td>
<td>0° to 40°C</td>
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<tr>
<td>Storage Temperature</td>
<td>-40° to 70°C</td>
<td>-40° to 70°C</td>
<td>-40° to 70°C</td>
<td>-40° to 70°C</td>
<td>-40° to 70°C</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>10% to 90% RH</td>
<td>10% to 90% RH</td>
<td>10% to 90% RH</td>
<td>10% to 90% RH</td>
<td>10% to 90% RH</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>5% to 90% RH</td>
<td>5% to 90% RH</td>
<td>5% to 90% RH</td>
<td>5% to 90% RH</td>
<td>5% to 90% RH</td>
</tr>
<tr>
<td>EMI</td>
<td>FCC Class A, CE, C-Tick, VCCI</td>
<td>cUL, CB</td>
<td>cUL, CB</td>
<td>cUL, CB</td>
<td>cUL, CB</td>
</tr>
<tr>
<td>Safety</td>
<td>cUL, CB</td>
<td>cUL, CB</td>
<td>cUL, CB</td>
<td>cUL, CB</td>
<td>cUL, CB</td>
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<tr>
<td>MTBF</td>
<td>111,241 hours</td>
<td>109,335 hours</td>
<td>93,318 hours</td>
<td>88,685 hours</td>
<td>77,558 hours</td>
</tr>
</tbody>
</table>
Technical Specifications

Stackability
- Virtual Stacking Support
- D-Link Single IP Management v1.6
- Up to 32 devices per virtual stack
- Up to 256 stacking bandwidth
- Physical stacking
- Support Duplex Chain/ Duplex Ring topology
- Up to 40G bandwidth
- Up to 12 units per stack
- Support backup master
- Allows trunking or mirroring to span multiple units of the stack

L2 Features
- MAC Address Table: 16K
- Flow Control
- 802.3x Flow Control
- H3C Blocking Prevention
- Jumbo Frame up to 9,216 Bytes
- GIMP snooping
- GIMP v1/v2/v3 Snooping
- Support 1K Groups
- IGMP Snooping Fast Leave
- Host-Based IGMP Fast Leave*
- MLD Snooping
- MLD v1 Snooping
- Support 1K Groups
- MLD Snooping Fast Leave
- Spanning Tree
- 802.1D STP
- 802.1w RSTP
- 802.1s MISTP
- Per port / per device BPDU filtering
- Root Restriction*
- Loopback Detection
- 802.3ad Link Aggregation
- Max. 32 Groups per device
- 8 Gigabit ports or 2 10G ports per group
- Port Mirroring:
  - Support One-to-One
  - Many-to-One
  - Flow-based Mirroring
- RSVP*
- L2 Protocol Tunneling

VLAN
- VLAN Group
- Max. 4K Static VLAN Groups
- Max. 255 Dynamic VLAN Groups
- 802.1D Tagged VLAN
- 802.1q Protocol VLAN
- QVRP
- Double VLAN (Q-in-Q)
- Port-Based Q-in-Q
- Selective Q-in-Q
- MAC-Based VLAN *

L3 Features
- 256 IP interfaces
- VRRP
- IPv6 Tunneling *
- Static
- ISAT
- GNE
- Bto4
- IPv6 Ready Phase 1
- ARP Probe

L3 Routing
- 12K hardware routing entries shared by IPv4/6
- Max. 12K IPv4 routes
- Max. 6K IPv6 routes
- 8K hardware L3 forwarding entries shared by IPv4/6
- Max. 6K IPv4 entries
- Max. 4K IPv6 entries
- 256 static routing entries for IPv4, 128 entries for IPv6
- Policy Based Route
- Multi-Path Routing
- Support ECDMP / WOMP
- VIF v1/v2

Network Security
- IP xanth (IPv6) *
- OSPF
- Support OSPFv2
- OSPF Passive Interface
- Stub/NSSA Area
- OSPF Equal Cost Route

QoS (Quality of Service)
- 802.1p Class of Service (CoS)
- 8 queues
- Queue Handling
- 802.1p Priority
- 802.1p Priority Queues
- MAC Address
- IPv4/6 Address
- DSCP
- Protocol Type
- IPv6 Traffic Class
- IPv6 Flow Label
- TCP/UDP Port
- User-Defined Packet Content
- Supports Follow-on Actions for Flows
- Remark 802.1p Priority Tag
- Remark TOS/DSCP Tag
- Bandwidth Control
- Flow Static
- Committed Information Rate (CIR), min. granularly
-BoundingBox
- Bandwidth Control
- Port-based (Ingress/Egress, min. granularly
- 64Kbps
- Flow-based Control
- Ingress/Egress, min. granularly
- 64Kbps
- Time based QoS

ACL (Access Control List)
- Up to 1792 access rules
- ACL Based on
- 802.1p Priority
- VLAN ID
- MAC Address
- Etter Type
- IPv4/6 Address
- DSCP
- Protocol Type
- TCP/UDP Port Number
- IPv6 Traffic Class
- IPv6 Flow Label
- User-Defined Packet Content
- ACL Static
- Time-based ACL
- CPU Interface Filtering

Security
- SSH v2
- SSL v3
- Port Security up to 16 MAC address per port
- Broadcast/Multicast/Unicast Storm Control
- Traffic Segmentation
- IP-MAC-Port Binding
- Support 500 address binding
- Support ARP / ACL / Auto (DHCP Snooping)* Mode
- D-Link Safeguard Engine

AAA
- 802.1X
- Port-Based Access Control
- Host-Based Access Control
- Dynamic VLAN Assignment
- Web-Based Access Control (WAC)
- Port-Based Access Control
- Host-Based Access Control
- Dynamic VLAN Assignment
- Microsoft NAP
- Guest VLAN
- RADIUS (i.e. TACACS + authentication for switch access
- 3 Level User Account *

Management
- Web-based GUI
- Command Line Interface (CLI)
- Telnet Server
- Telnet Client *
- TFTP Client
- ZModem
- SNMP v1/v2c/v3
- SNMP Trap
- System Log
- RMON v1
- Support 1,2,3,9 Groups
- RMON v2
- Support ProbeConfig Group
- sFlow
- LLDP *
- BootP/DHCP Client
- DHCP Auto-Configuration
- DHCP Relay
- DHCP Relay Option 60 *
- DHCP Relay Option 61 *
- DHCP Relay Option 82
- DHCP Server
- Flash File System
- Multiple Image
- Multiple Configuration
- CPU Monitoring
- Debug Command *
- SNMP
- Cable Diagnostic *

MIB/IEFTM Standard
- RFC2139 MIB-6
- RFC1493 Bridge MIB
- RFC1907 SNMPv2 MIB
- RFC2571 – 2576 SNMP MIB
- RFC1271, 2191 RMON MIB
- RFC2021 RMON v2 MIB
- RFC2665 Ether-like MIB
- RFC2666 MAU MIB
- RFC2674 802.1p MIB
- RFC2668 MAU MIB
- RFC2819 RMON MIB
- RFC1850 OSPF v2 MIB
- RFC1724 RIP v2 MIB
- RFC2618 RADIUS Authentication Client MIB
- RFC2620 RADIUS Accounting Client MIB
- RFC1271, 2191 RMON MIB
- RFC2819 RMON MIB
- RFC1724 RIP v2 MIB
- RFC1650 OSPF v2 MIB
- RFC2096 IP Forwarding Table MIB (CIDR)
- RFC2787 VRRP MIB
- RFC2902 IPv4 Multicast Routing MIB
- RFC2934 IPv6 MIB for IPv4
- RFC2620 RADIUS Accounting Client MIB
- RFC2933 IGMP MIB
- Ping MIB *
- Traceroute MIB *
- D-Link Private MIB
- RFC678 UDP
- RFC783 TFTP
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC864 Telnet
- RFC2931, 1542 BootP
- RFC2068 HTTP
- RFC2338 VRRP
- RFC2529, 3033, 3056 IPv6 Tunnel
- RFC2186 RADIUS
- RFC2189 RADIUS Accounting
- RFC1492 TACACS
- RFC3176 sflow

* Function available in future firmware upgrade
Deploying the DGS-3600 in an Enterprise Network

Deploying the DGS-3600 in a Carrier Network
Optional Products

**Optional Management Software**
- **DS-510S**: D-View 5.1 SNMP Network Management Program (standard version)
- **DS-510P**: D-View 5.1 SNMP Network Management Program (professional version)

**Optional 10Gbps Uplink Modules**
- **DEM-410X**: 1-slot 10-Gigabit XFP uplink module
- **DEM-410CX**: 1-port 10-Gigabit CX4 uplink module

**Optional 1Gbps SFP Transceivers**
- **DEM-311GT**: SFP transceiver, 1000BASE-LX standard, single-mode fiber, max. distance 10 km, 3.3V operating voltage
- **DEM-311G**: SFP transceiver, 1000BASE-SX standard, multi-mode fiber, max. distance 500m, 3.3V operating voltage
- **DEM-312GT2**: SFP transceiver, 1000BASE-SX standard, multi-mode fiber, max. distance 2km, 3.3V operating voltage
- **DEM-312GT**: SFP transceiver, 1000BASE-LX standard, single-mode fiber, max. distance 10km, 3.3V operating voltage
- **DEM-314GT**: SFP transceiver, 1000BASE-LX standard, single-mode fiber, max. distance 50km, 3.3V operating voltage
- **DEM-315GT**: SFP transceiver, 1000BASE-LX standard, single-mode fiber, max. distance 80km, 3.3V operating voltage
- **DEM-330T**: WDM SFP transceiver, 1000BASE-LX standard, single-mode fiber, max. distance 10km, 3.3V operating voltage, Tx wavelength 1550 nm, Rx wavelength 1310 nm
- **DEM-330R**: WDM SFP transceiver, 1000BASE-LX standard, single-mode fiber, max. distance 10km, 3.3V operating voltage, Tx wavelength 1310 nm, Rx wavelength 1550 nm

**Optional Redundant Power Supply**
- **DPS-500**: 140-watt redundant power supply
- **DPS-500C**: 140-watt DC redundant power supply
- **DPS-800**: 2-slot redundant power supply chassis
- **DPS-900**: 8-slot redundant power supply chassis

**D-Link Worldwide Offices**

- **U.S.A.**: TEL: 1-800-326-1688 FAX: 1-866-763-4905
- **Canada**: TEL: 1-905-829-5023 FAX: 1-905-829-5223
- **Europe (U. K.)**: TEL: 44-20-8955-9000 FAX: 44-20-8955-9001
- **Germany**: TEL: 49-6196-77990 FAX: 49-6196-779900
- **France**: TEL: 33-1-2023-6689 FAX: 33-1-2023-6689
- **Netherlands**: TEL: 31-10-282-1465 FAX: 31-10-282-1331
- **Belgium**: TEL: 32(0)2-517-7111 FAX: 32(0)2-517-6500
- **Italy**: TEL: 39-02-2900-6076 FAX: 39-02-2900-1723
- **Sweden**: TEL: 46-(0)854-61900 FAX: 46-(0)854-61901
- **Denmark**: TEL: 45-43-969040 FAX: 45-43-424347
- **Norway**: TEL: 47-99-300-100 FAX: 47-22-309580
- **Finland**: TEL: 358-10-309-8840 FAX: 358-10-309-8841
- **Spain**: TEL: 34-93-490-0770 FAX: 34-93-490-0779
- **Portugal**: TEL: 351-21-8688493 FAX: 351-21-8688493
- **Czech Republic**: TEL: 42-40(603)-276-589 FAX: 42-40(603)-276-589
- **Switzerland**: TEL: 41-1(1)-822-11-00 FAX: 41(1)-1-822-11-01
- **Greece**: TEL: 30-210-9914-512 FAX: 30-210-9916-902
- **Luxembourg**: TEL: 32-(0)2-517-7111 FAX: 32-(0)2-517-6500
- **Poland**: TEL: 48-(0)-22-583-92-75 FAX: 48-(0)-22-583-92-76
- **Hungary**: TEL: 36-(0)-1-461-30-00 FAX: 36-(0)-1-461-30-09
- **Singapore**: TEL: 65-6774-6333 FAX: 65-6774-6322
- **Australia**: TEL: 61-2-8899-1890 FAX: 61-2-8899-1868
- **India**: TEL: 91-022-26526496 FAX: 91-022-26528914
- **Middle East (Dubai)**: TEL: 971-4-2916480 FAX: 971-4-3908881
- **Turkey**: TEL: 0212-289-7659 FAX: 0212-289-7666
- **Iran**: TEL: 9821-8882-2613 FAX: 9821-8883-5492
- **Pakistan**: TEL: 92-21-454 8158 FAX: 92-21-453 5103
- **Egypt**: TEL: 202-291-9035 FAX: 202-291-9051
- **Israel**: TEL: 972-9-9715700 FAX: 972-9-9715601
- **LatinAmerica**: TEL: 56-2-5838-950 FAX: 56-2-5838-950
- **Brazil**: TEL: 55-11-218-59300 FAX: 55-11-218-59322
- **South Africa**: TEL: 27-12-665-2165 FAX: 27-12-665-2186
- **Russia**: TEL: 7-495-744-0099 FAX: 7-495-744-0099 #350
- **Japan**: TEL: 81-3-5781-0676 FAX: 81-3-5781-0676
- **China**: TEL: 8-10-58635800 FAX: 8-10-58635799
- **Taiwan**: TEL: 886-2-6600-0123 FAX: 886-2-6600-1188
- **Australia**: TEL: 61-2-8899-1890 FAX: 61-2-8899-1868

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