

Cisco Network Convergence System 540 Medium Density Routers

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Overview

The Cisco Visual Network Index predicts that by 2023, 5G speeds will be 13 times higher than the average mobile connection and 66% of the global population will have internet access. There will be nearly 30 billion devices/connections by 2023 – 45% of those will be mobile and average broadband speeds will rise from 46 Mbps to 110 Mbps. With millions of users and devices connecting to the network, the demands on the service provider network will not be limited to higher bandwidth at lower operating costs but will also require the capabilities to support new applications such as pervasive mobile broadband, massive IoT, tactile internet, smart city and virtual reality.

The Cisco Network Convergence System 540 Medium Density Routers (NCS 540) are designed for cost-effective delivery of next-generation services and applications. These routers are temperature-hardened, high-throughput, small form factor, low-power-consumption devices suitable for both outdoor and indoor deployments. With in-built trust anchor hardware infrastructure and anti-counterfeit protection along with software enabled security features, NCS 540 is most trusted and secured platform. They are powered by the industry-leading carrier-class version of Cisco IOS XR software designed for operational efficiency and service agility. Cisco IOS XR software offers advanced features such as programmability, application awareness, network visibility, and automation. The Cisco NCS 540 series of routers is an intelligent converged access platform which enables service providers to deliver next-level business and entertainment experiences.

Key product highlights

- 1 RU small form factor with depth <300mm
- Side-to-side or front-to-back airflow
- Environmental hardened, suitable for deployments in indoor or outdoor cabinets
- Low power consumption, minimum <100W, typical <200W, maximum 250W
- Versatile Ethernet interface options: 10/100/1000M, 1/10/25/40/100G
- Low latency forwarding, typically <10 μ s
- Precise frequency and phase/time synchronization using the latest industry standards
- Integrated GNSS receiver in some model
- Rich Quality of Service capabilities for different SLAs
- Security-Trust Anchor infrastructure, secure boot, image signing, run-time defense
- MEF 3.0 Compliant
- Excellent manageability
- Flexible consumption model
- Third-party app hosting



Figure 1.
Cisco NCS 540 Medium Density Router Family

Model comparison

Chassis PID	N540-24Z8Q2C-SYS N540-24Z8Q2C-M	N540-ACC-SYS N540X-ACC-SYS (Conformal Coated)	N540X-16Z4G8Q2C -A N540X-16Z4G8Q2C -D	N540X-12Z16G-SYS-A N540X-12Z16G-SYS-D	N540-28Z4C-SYS -A N540-28Z4C-SYS -D	N540-12Z20G-SYS -A N540-12Z20G-SYS -D	N540X-16Z8Q2C-D
CPU	4-core 1.5Ghz x86 CPU	4-core 1.5Ghz x86 CPU	8-core 1.7GHz x86 CPU	4-core 1.6GHz x86 CPU	8-core 1.7GHz x86 CPU	4-core 1.6GHz x86 CPU	8-core 1.7GHz x86 CPU
Memory	32GB DRAM	16GB DRAM	8GB DRAM	8GB DRAM	8GB DRAM	8GB DRAM	8GB DRAM
Storage	128GB storage	128GB storage	32GB storage	32GB storage	32GB storage	32GB storage	32GB storage
Interfaces	24x 1GE/10GE 8x 1GE/10GE/25GE 2x 40GE/100GE	24x 1GE/10GE 8x 1GE/10GE/25GE 2x 40GE/100GE	4x 1GE RJ-45 (10/100M) 16x 1GE/10GE 8x 1GE/10GE/25GE 2x 40GE/100GE	4x 1GE RJ-45 (10/100M) 12x 1GE 12x 1GE/10GE	28x 1GE/10GE 4x 40GE/100GE	20x 1GE 12x 1GE/10GE	16x 1GE/10GE 8x 1GE/10GE/25GE 2x 40GE/100GE
Performance	Up to 300 Mpps	Up to 300 Mpps	Up to 300 Mpps	Up to 160 Mpps	Up to 300 Mpps	Up to 160 Mpps	Up to 300 Mpps
Power Supplies	2 hot-swappable AC/DC power supplies provide 1+1 redundancy	2 hot-swappable AC/DC power supplies provide 1+1 redundancy	Fixed dual redundant DC power supplies	Fixed dual redundant DC power supplies	Fixed dual redundant DC power supplies	Fixed dual redundant DC power supplies	Fixed dual redundant DC power supplies
Fans	4 modular fans provide 3+1 redundant system cooling	4 modular fans provide 3+1 redundant system cooling	Fixed single AC power supply	Fixed single AC power supply	Fixed single AC power supply	Fixed single AC power supply	Modular Fan Tray with redundant fans
Airflow	Front-to-back airflow	Front-to-back airflow	Modular Fan Tray with redundant fans Side-to-side Airflow (right to left)	Fixed redundant fans Side-to-side Airflow (right to left)	Fixed redundant fans Front-to-back airflow	Fixed redundant fans Front-to-back airflow	Side-to-side Airflow (right to left)

Chassis PID	N540-24Z8Q2C-SYS N540-24Z8Q2C-M	N540-ACC-SYS N540X-ACC-SYS (Conformal Coated)	N540X-16Z4G8Q2C -A N540X-16Z4G8Q2C -D	N540X-12Z16G-SYS-A N540X-12Z16G-SYS-D	N540-28Z4C-SYS -A N540-28Z4C-SYS -D	N540-12Z20G-SYS -A N540-12Z20G-SYS -D	N540X-16Z8Q2C-D
Temperature Range	I-Temp: -40° C to +70° C at 1,000ft +65° C at 6,000ft +55° C at 13,000ft	I-Temp: -40° C to +70° C at 1,000ft +65° C at 6,000ft +55° C at 13,000ft Conformal coated SKU option for hot humid conditions	I-Temp: -40° C to +70° C at 1,000ft +65° C at 6,000ft +55° C at 13,000ft Conformal coated SKU for hot humid conditions	I-Temp: -40° C to +70° C at 1,000ft +65° C at 6,000ft +55° C at 13,000ft Conformal coated SKU for hot humid conditions	C-Temp: -5° C to +55° C at 6,000ft +40° C at 13,000ft	C-Temp: -5° C to +55° C at 6,000ft +40° C at 13,000ft	I-Temp: -40° C to +70° C at 1,000ft +65° C at 6,000ft +55° C at 13,000ft Conformal coated SKU for hot humid conditions
Surge Rating As per IEC 61000-4-5	AC: 1kV DM, 2kV CM DC: 1kV DM, 1kV CM	AC: 1kV DM, 2kV CM DC: 1kV DM, 1kV CM	AC: 2kV DM, 2kV CM DC: 1kV DM, 2kV CM	AC: 2kV DM, 2kV CM DC: 1kV DM, 1kV CM	AC: 2kV DM, 2kV CM DC: 1kV DM, 1kV CM	AC: 2kV DM, 2kV CM DC: 1kV DM, 1kV CM	AC: 2kV DM, 2kV CM DC: 1kV DM, 2kV CM
Timing	SyncE, PTP Internal GNSS receiver Interfaces: 1pps, 10MHz, ToD, antenna for GNSS Class B	SyncE, PTP Internal GNSS receiver Interfaces: 1pps, 10MHz, ToD, antenna for GNSS Class B	SyncE, PTP Internal GNSS receiver Interfaces: BITS, 1pps, 10MHz, ToD, antenna for GNSS Class C	SyncE, PTP Internal GNSS receiver Interfaces: BITS, 1pps, 10MHz, ToD, antenna for GNSS Class C	SyncE, PTP Interfaces: BITS, 1pps, 10MHz, ToD Class B	SyncE, PTP Interfaces: BITS, 1pps, 10MHz, ToD Class B	SyncE, PTP Internal GNSS receiver Interfaces: BITS, 1pps, 10MHz, ToD, antenna for GNSS Class C
Physical Specification	1RU Depth: 26 cm 1.72 in. x 17.3 in. x 10.1 in. Weight: 5.9 kg	1RU Depth: 26 cm 1.72 in. x 17.3 in. x 10.1 in. Weight: 5.9 kg	1RU Depth: 28 cm 1.72 in. x 17.3 in. x 11.02 in. Weight: 5.5 kg	1RU Depth: 25 cm 1.72 in. x 17.3 in. x 9.84 in. Weight: 6.0 kg	1RU Depth: 25 cm 1.72 in. x 17.3 in. x 9.84 in. Weight: 4.7 kg	1RU Depth: 25 cm 1.72 in. x 17.3 in. x 9.84 in. Weight: 4.7 kg	1RU Depth: 28 cm 1.72 in. x 17.3 in. x 11.02 in. Weight: 5.5 kg
NEBS GR-63-CORE and GR-1089-CORE	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Compliant
NEBS GR-3108	Designed to meet Class III when installed in sealed cabinets	Designed to meet Class III when installed in sealed cabinets	Designed to meet Class III when installed in sealed cabinets	Designed to meet Class III when installed in sealed cabinets	Compliant to Class I	Compliant to Class I	Designed to meet Class III when installed in sealed cabinets

Software feature support on NCS 540 in Cisco IOS XR:

Description	Specification
Layer 2	Layer 2 forwarding and bridging Bridge Domains (BD) Ethernet Flow Point (EFP) IEEE 802.1Q VLANs and Q-in-Q Ethernet Link Aggregation Group (LAG) Link Aggregation Control Protocol (LACP) 802.3ad G.8032 Spanning tree Jumbo frames on all ports
Layer 3	IPv4 and IPv6 unicast routing Layer 3 interfaces: physical interfaces and sub-interfaces Virtual Routing and Forwarding (VRF) Open Shortest Path First (OSPFv2, OSPFv3) Intermediate System to Intermediate System (ISIS, ISISv6) Multiprotocol Border Gateway Protocol (MP-BGP) Equal-Cost Multipath (ECMP) Bidirectional Forwarding Detection (BFD) Virtual Router Redundancy Protocol (VRRP) Integrated Routing Bridging (IRB) with Bridge Virtual Interface (BVI) Generic Routing Encapsulation (GRE)
MPLS	Label switching (LER, LSR) Label Distribution Protocol (LDP) BGP Labeled Unicast (BGP-LU) MPLS Traffic Engineering with RSVP-TE Point-to-point L2VPN - Static, T-LDP, EVPN-VPWS Multipoint L2VPN - VPLS, EVPN L2/L3 EVPN with Anycast IRB 6PE, 6VPE IP Loop-Free Alternate (LFA) Fast Reroute (FRR) RSVP-TE Fast Reroute (FRR) Flex-Algo

Description	Specification
Segment Routing (SR)	Segment Routing with MPLS data plane (SR-MPLS) Segment Routing with IPv6 data plane (SRv6) ISIS, OSPF, BGP extensions to segment routing BGP Egress Peering Engineering (BGP-EPE) Segment Routing Traffic Engineering (SRTE) Segment Routing Path Computation Element (SR-PCE) Topology Independent Loop-Free Alternate (TI-LFA) Segment Routing On-Demand Next-hop (SR-ODN) Advanced OAM- SR Performance Monitoring
Multicast	IPv4 and IPv6 multicast routing PIM-SM, PIM-SSM IGMPv3, MLDv2 mLDP mVPN P2MP-TE
Quality of Service (QoS)	Class-based 3-level Hierarchical QoS Virtual Output Queueing (VOQ) Policing, Shaping Multi-level priority queuing Classification based on L2/L3/L4 fields Remarking Weighted Random Early Detection (WRED) Deep packet buffer
Timing	SyncE with ESMC Integrated GNSS receiver IEEE 1588-2008 PTP T-GM, T-BC, T-TSC G.8265.1, G.8275.1, G.8275.2 G.8273.2 Class B/C
Security	Control-plane and management plane protection Local Packet Transport Services (LPTS) Authentication, Authorization, and Accounting (AAA) Terminal Access Controller Access-Control System Plus (TACACS+) Secure Shell (SSH) Layer 3 ingress and egress ACLs for IPv4 and IPv6 Layer 2 ingress ACLs Unicast Reverse Path Forwarding (Unicast RPF)

Description	Specification
OAM	CDP, LLDP, ICMP, DHCP Relay IP SLA MPLS OAM Ethernet OAM: CFM, Y.1731 DM/SLM TWAMP H/W based timestamping Y.1564 Model/Event Driven Telemetry Netflow SPAN/ERSPAN
Manageability	CLI SNMP MIB NETCONF/gRPC (XML, JSON, GPB) YANG models (native, open: OpenConfig, IETF) RPM-based SW infrastructure Zero-Touch Provisioning (ZTP) with iPXE 3 rd party application hosting

Supported transceiver modules

Please refer to [Transceiver Module Group \(TMG\) Compatibility Matrix](#) for the NCS 540 Series supported transceivers.

Environment

Description	NCS 540 Router
Normal operating temperature	Industrial temperature: -40°C to +70°C (1,000 ft.), +65°C (6,000 ft.), +55°C (13,000 ft.) Commercial temperature: -5°C to +55°C (6,000 ft.), +40°C (13,000 ft.)
Nonoperating (storage) temperature	-40 to 70°C (-40 to 158°F)
Operating humidity	All variants of NCS 540: 5% to 95% (noncondensing) except N540-28Z4C-SYS-A/D, N540-12Z20G-SYS-A/D: 15% to 85% (noncondensing)
Storage (relative) humidity	5% to 95% at 40°C per NEBS GR-63-Core

Description	NCS 540 Router
Altitude	0 to 13,000 ft.
Power	Worldwide ranging AC (90-265V; 50-60 Hz) Worldwide ranging DC (-40V to -72V)

Regulatory standards compliance

Specification	Description
Regulatory compliance	Products should comply with CE markings according to directives 2004/108/EC and 2006/95/EC
Safety	UL 60950-1 Second Edition CAN/CSA-C22.2 No. 60950-1 Second Edition EN 60950-1 Second Edition IEC 60950-1 Second Edition AS/NZS 60950-1 GB4943
EMC standards	47CFR Part 15 (CFR 47) Class A AS/NZS CISPR22 Class A CISPR22 Class A EN55022 Class A ICES003 Class A VCCI Class A EN61000-3-2 EN61000-3-3 KN22 Class A CNS13438 Class A
EMC immunity	EN55024 CISPR24 EN300386 KN 61000-4 series

Specification	Description
ETSI	ETS/EN 300 119 Part 4 ETS/EN 300 019 - Storage: Class 1.2, Transportation: Class 2.3, In-Use/Operational: Class 3.2 ETS/EN 300 753
RoHS	The product is RoHS-6 compliant with exceptions for leaded-ball grid-array (BGA) balls and lead press-fit connectors

Ordering information

Router PID	N540-24Z8Q2C-SYS	N540-ACC-SYS	N540X-ACC-SYS	N540X-16Z4G8Q2C-A N540X-16Z4G8Q2C-D	N540X-12Z16G-SYS-A N540X-12Z16G-SYS-D	N540-28Z4C-SYS-A N540-28Z4C-SYS-D	N540-12Z20G-SYS-A N540-12Z20G-SYS-D	N540X-16Z8Q2C-D
Description	NCS 540 24x1/10GE, 8x10/25GE, 2x100GE chassis	NCS 540 24x1/10GE, 8x10/25GE, 2x100GE chassis	NCS 540 24x1/10GE, 8x10/25GE, 2x100GE conformal coated chassis	Cisco NCS 540 System with 16x10G+4x1G Cu+8x25G+2x100G, AC Cisco NCS 540 System with 16x10G+4x1G Cu+8x25G+2x100G, DC	Cisco NCS 540 System with 12x1G SFP + 4x1G Cu + 12x10G AC Cisco NCS 540 System with 12x1G SFP + 4x1G Cu + 12x10G, DC	Cisco NCS 540 System with 28x10G+4x100G, AC Cisco NCS 540 System with 28x10G+4x100G, DC	Cisco NCS 540 System with 20x1G+12x10G, AC Cisco NCS 540 System with 20x1G+12x10G, DC	Cisco NCS 540 System with 16x10G+8x25G+2x100G, DC
Power Supplies	Power Supply:	Power Supply:	Power Supply:	Fan Tray:	Rackmounts for DC variant:	Rackmounts for DC variant:	Rackmounts for DC variant:	Fan Tray:
Fans	N540-PWR400-A	N540-PWR400-A	N540-PWR400-A	N540-X-BB-FAN	N540-RCKMT-19-ACD	N540-RCKMT-19-CLD	N540-RCKMT-19-CLD	N540-X-BB-FAN
Accessories	N540-PWR400-D	N540-PWR400-D	N540-PWR400-D	Rackmounts for DC variant:	N540-RCKMT-23-ACD	N540-RCKMT-23-CLD	N540-RCKMT-23-CLD	Rackmounts for DC variant:
	Fan:	Fan:	Fan:	N540-RCKMT-19-EGD	N540-RKMT-ETSI-ACD	N540-RCKMT-23-CLD	N540-RKMT-ETSI-CLD	N540-RCKMT-19-EGD
	N540-FAN	N540-FAN	N540-X-FAN	N540-RCKMT-23-EGD	Rackmounts for AC variant:	N540-RKMT-ETSI-CLD	Rackmounts for AC variant:	N540-RCKMT-23-EGD
	Rackmount for AC variant:	Rackmount for AC variant:	Rackmount for AC variant:	N540-RKMT-ETSI-EGD	N540-RCKMT-19-ACA	Rackmounts for AC variant:	N540-RCKMT-19-CLA	N540-RCKMT-23-EGD
	N540-RCKMT-19	N540-RCKMT-19	N540-RCKMT-19	Rackmounts for AC variant:	N540-RCKMT-23-ACA	N540-RCKMT-19-CLD	N540-RCKMT-23-CLA	N540-RKMT-ETSI-EGD
	N540-RCKMT-23	N540-RCKMT-23	N540-RCKMT-19	N540-RCKMT-19-EGA	N540-RKMT-ETSI-ACA	N540-RCKMT-19-CLD	N540-RKMT-ETSI-CLA	Rackmounts for AC variant:
	N540-RKMT-ETSI	N540-RKMT-ETSI	N540-RCKMT-23	N540-RCKMT-23-EGA	Cable Brackets:	N540-RCKMT-23-CLD	N540-RKMT-ETSI-CLA	N540-RCKMT-19-EGA
	Cable Brackets:	Cable Brackets:	N540-RKMT-ETSI	N540-RKMT-ETSI-EGA	N540-CBL-BRKT-AC	N540-RCKMT-23-CLD	Cable Brackets:	N540-RCKMT-23-EGA
	N540-CBL-GD-19	N540-CBL-GD-19	Cable Brackets:	Cable Brackets:		N540-RKMT-ETSI-CLA	N540-CBL-BRKT-DN	N540-RCKMT-23-EGA
		N540-CBL-GD-19	N540-CBL-GD-19	N540-CBL-BRKT-EG		Cable Brackets:	N540-WALLMT-CLA	N540-RKMT-ETSI-EGA
						N540-CBL-		Cable

Router PID	N540-24Z8Q2C-SYS	N540-ACC-SYS	N540X-ACC-SYS	N540X-16Z4G8Q2C-A N540X-16Z4G8Q2C-D	N540X-12Z16G-SYS-A N540X-12Z16G-SYS-D	N540-28Z4C-SYS-A N540-28Z4C-SYS-D	N540-12Z20G-SYS-A N540-12Z20G-SYS-D	N540X-16Z8Q2C-D
						BRKT-CL N540-WALLMT-CLA		Brackets: N540-CBL- BRKT-EG
Software	XR-6.5-AC-TRK TRK-6.5-54	XR-6.5-AC-TRK TRK-6.5-54	XR-6.5-AC-TRK TRK-6.5-54	XR-7.0-AC-TRK TRK-7.0-54	XR-7.0-AC-TRK TRK-7.0-54	XR-7.0-AC-TRK TRK-7.0-54	XR-7.0-AC-TRK TRK-7.0-54	XR-7.3-K9-AC-TRK TRK-7.3-27-54L-K9

Ordering information for software licenses available on NCS 540

Product ID (PID)	Description
ESS-AC-10G-RTU-1	Access Essentials SW Right-to-Use v1.0 per 10G
ADV-AC-10G-RTU-1	Access Advantage w/o Essentials SW RTU v1.0 10G
ADN-AC-10G-RTU-1	Access Advantage w/ Essentials SW RTU v1.0 10G
ESS-ADN-AC-10G-RT	Access Essentials to Advantage Upgrade RTU per 10G
ESS-AC-10G-SIA-3	Access Essentials SIA 10G 3-5 year term
ESS-AC-10G-SIA-5	Access Essentials SIA 10G 5-10 year term
ADV-AC-10G-SIA-3	Access Advantage w/o Essentials SIA 10G 3-5 year term
ADV-AC-10G-SIA-5	Access Advantage w/o Essentials SIA 10G 5-10 year term
ADN-AC-10G-SIA-3	Access Advantage w/ Essentials SIA 10G 3-5 year term
ADN-AC-10G-SIA-5	Access Advantage w/ Essentials SIA 10G 5-10 year term
ESS-ADN-AC-10G-S3	Access Essentials to Advantage Upgrade SIA 10G 3-5 yrs
ESS-ADN-AC-10G-S5	Access Essentials to Advantage Upgrade SIA 10G 5-10 yrs
N540-24Z8Q2C-FC-SW	NCS 540 Series additional Software Licenses (RTU, SIA)

Ordering information for power cables supported on NCS 540

Part number	Description
CAB-AC-SA	Power Cord - South Africa, 16/10A,250V,1830mm, -40C to +85C
CAB-AC-ARG	Power Cord - Argentina, 10A,250V,2500mm, -40C to +85C
CAB-AC-ISR	Power Cord - Israel, 16/10A,250V,2500mm, -40C to +85C
CAB-AC-TAI	Power Cord - Taiwan, 15/10A,125V,2500mm, -40C to +85C
CAB-AC-CHI	Power Cord - China, 10A,250V,2500mm, -40C to +85C
CAB-AC-KOR	Power Cord - Korea, 16/10A,125V,2500mm, -40C to +85C
CAB-AC-EUR	Power Cord - Europe, 16/10A,250V, 2500mm, -40C to +85C
CAB-AC-ITL	Power Cord - Italy, 10A,250V, 2500mm, -40C to +85C
CAB-AC-UK	Power Cord - UK, 13/10A, 250V, 2500mm, -40C to +85C
CAB-AC-AUS	Power Cord - Australia, 10A,250V,2500mm, -40C to +85C
CAB-AC-US	Power Cord - US, 15A,125V,2500mm, -40C to +85C
CAB-AC-BRA	Power Cord - Brazil, 10A,250V,2500mm, -40C to +85C
CAB-AC-IND	Power Cord - India, 16/10A,250V,2500mm, -40C to +85C
CAB-AC-SUI	Power Cord - Swiss, 10A,250V,2500mm, -40C to +85C
CAB-AC-SA	Power Cord - South Africa, 16/10A,250V,1830mm, -40C to +85C
CAB-AC-ARG	Power Cord - Argentina, 10A,250V,2500mm, -40C to +85C
CAB-AC-ISR	Power Cord - Israel, 16/10A,250V,2500mm, -40C to +85C

Service and support

Cisco offers a wide range of services to help accelerate your success in deploying and optimizing the Cisco NCS 540. These innovative Cisco Services offerings are delivered through a unique combination of people, processes, tools, and partners, and they are focused on helping you increase operating efficiency and improve your network operation. Cisco Advanced Services uses an architecture-led approach to help you align your data center infrastructure with your business goals and achieve long-term value. Cisco Services helps you resolve mission-critical problems with direct access at any time to Cisco network experts and award-winning resources. With this service, you can take advantage of the Cisco Smart Call Home service, which offers proactive diagnostics and real-time alerts on your Cisco NCS 540. Spanning the entire network lifecycle, Cisco Services offerings help increase investment protection, optimize network operations, support migration operations, and strengthen your IT expertise.

Warranty

The Cisco NCS 540 has a 1-year limited hardware warranty. The warranty includes hardware replacement with a 10-day turnaround from receipt of a Return Materials Authorization (RMA).

Product sustainability

Information about Cisco's environmental, social and governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability [reporting](#).

Sustainability Topic		Reference
General	Information on product-material-content laws and regulations	Materials
	Information on electronic waste laws and regulations, including our products, batteries and packaging	WEEE Compliance
	Information on product takeback and reuse program	Cisco Takeback and Reuse Program
	Sustainability Inquiries	Contact: csr_inquiries@cisco.com
Material	Product packaging weight and materials	Contact: environment@cisco.com

Cisco Capital

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For more information

For more information about the Cisco NCS 540, contact your Cisco representative.

Document history

New or revised topic	Described in	Date
Updated Section Ordering information		7/14/2021

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
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