Data sheet Cisco public



Cisco Wireless 9172 Series Access Points

Contents

Product overview	3
Features and benefits	3
Introducing global use access points and the Cisco Networking Subscription	4
Licensing	5
Product specifications	5
Antenna patterns – Cisco Wireless 9172I	11
Ordering information	19
Warranty information	19
Product sustainability	19
Cisco and partner services	21
Cisco Capital	21

The Cisco[®] Wireless 9172 Series Wi-Fi 7 access points provide a seamless entry into next-generation wireless networking, delivering reliable, high-performance connectivity for environments like boutique hotels, student housing, retail stores, healthcare clinics, remote work hubs, and distributed business locations such as satellite offices, regional branches, and logistics hubs. With a compact, energy-efficient design and flexible management options, the 9172 Series helps ensure strong, future-ready connectivity without compromising affordability.

Product overview

The Cisco Wireless 9172 Series Wi-Fi 7 access points are high-performance wireless solutions designed for environments like boutique hotels, healthcare clinics, retail stores, student housing, and distributed business locations such as regional branches and logistics hubs. With tri-radio functionality across 2.4-GHz, 5-GHz, and 6-GHz bands, the 9172 Series provides reliable, high-speed connectivity (frame rate up to 9000 Mbps) for spaces with low to moderate device density. Flexible deployment options-cloud, on-premises, or hybrid-allow seamless integration into existing networks.

The 9172I model supports flexible configurations, including a high-density 4x4 radio option for 5 GHz when the 6-GHz band is disabled, making it ideal for retail, healthcare, and branch office use. Both models feature plug-and-play setup with mount compatibility for quick and efficient deployment.

For customers, the 9172 Series delivers reliable Wi-Fi 7 performance, enabling advanced applications like IoT integration, telehealth, and seamless customer experiences. The primary business benefit is future-ready connectivity with energy efficiency, reducing power consumption while supporting evolving network demands. This makes the 9172 Series a cornerstone for modernizing and optimizing network infrastructure.

Features and benefits

Table 1.Features and benefits

Feature	Benefit
Tri-radio Wi-Fi 7 (2.4, 5, and 6 GHz)	Delivers reliable, high-speed connectivity for modern devices.
Aggregate data rate of 9000 Mbps	Supports bandwidth-intensive applications like streaming and IoT.
Cloud, on-premises, or hybrid management	Enables flexible, scalable deployment across diverse environments.
IoT radios (BLE, 802.15.4)	Powers smart spaces with asset tracking and automation.
Compact design with mount compatibility	Simplifies installation and reduces deployment time.
Power efficiency (30W and 45W options)	Reduces operational costs and supports sustainability goals.
High-density radio configurations (9172I)	Optimizes performance for specific use cases like retail or healthcare.
Dual power options (PoE/DC) (9172I)	Offers deployment flexibility in older or temporary spaces.

Introducing global use access points and the Cisco Networking Subscription

Global use access points

Expanding our comprehensive 6-GHz wireless portfolio, the 9172 Series global use access points offer a resilient, scalable solution for your modern wireless network. These access points seamlessly operate in a cloud, on-premises, or hybrid deployment mode, giving you the flexibility and investment protection you need for the future.

With the Cisco Wireless Wi-Fi 7 access points, you get an intelligent process for management mode discovery that's seamless, scalable, and straightforward. The global use access points' onboarding process eliminates the need for stack-specific and regulatory domain-specific products, saving you time and effort during installation.

Cisco's Wi-Fi 7 global use access points further unify our wireless product portfolio. Whether you choose onpremises or cloud-managed networking, the 9172 Series access points help you build future-ready networks with ease.

Cisco Networking Subscription

The Cisco Networking Subscription streamlines the purchase and use of Cisco software, hardware, services, and platforms. This unified licensing model offers the flexibility to manage your network on-premises, in the cloud, or in a hybrid manner, using the same unified licenses, product support, and hardware.

You can purchase these new unified licenses (Cisco Wireless Essentials or Advantage) in a Cisco Networking Subscription. The licenses include product support for both your hardware and your software. With an active subscription, you can align renewal dates to your cost-center needs, add licenses without changing renewal dates, and upgrade entitlements midterm. The Cisco Networking Subscription provides flexible management options, supporting your network investment today and protecting it for the future.

Note: For more information about the Cisco Networking Subscription, refer to the data sheet.

Secure infrastructure

Trustworthy systems built with Cisco Trust Anchor Technologies provide a highly secure foundation for Cisco products. Cisco Wireless access points help ensure hardware and software authenticity for supply chain trust and strong defense against man-in-the-middle attacks that compromise software and firmware. Trust Anchor capabilities include:

- Image signing
- Secure Boot
- Cisco Trust Anchor module

Seamless integration with existing network infrastructures

As businesses adapt to hybrid workplaces and distributed locations, flexible deployment is essential. The Cisco Wireless 9172 Series offers cloud, on-premises, or hybrid management, helping ensure seamless integration into existing infrastructures. Auto-configurable setup simplifies installation across locations, reducing complexity for IT teams.

Designed for environments like satellite offices, student housing, and regional branches, these access points are compact and compatible with existing mounts, enabling rapid deployment with minimal disruption.

Key capabilities include:

- Auto-configuration: Simplifies setup across diverse environments.
- Scalable management: Adapts to dynamic business needs.
- Mount compatibility: Reduces installation effort and time.

Energy-efficient design for sustainability

Energy efficiency is a priority for businesses looking to reduce operational costs and align with sustainability goals. The Cisco Wireless 9172 Series operates at just 30W for full functionality, with an optional 45W mode for powering PoE or USB devices. This design minimizes power consumption without compromising performance.

Key capabilities include:

- Reduced energy costs: Lowers operational expenses while maintaining performance.
- Sustainability support: Aligns with corporate environmental initiatives.
- Dual power options: Flexibility for diverse deployment environments.

The Cisco Wireless 9172 Series delivers unmatched value, combining advanced Wi-Fi 7 performance with integration, efficiency, and scalability to meet the needs of today's connected organizations.

Licensing

Cisco Wi-Fi 7 access points, including the 9172 Series, require a Cisco Networking Subscription, either Cisco Wireless Essentials or Cisco Wireless Advantage licenses.

For information about licensing features and support, refer to the https://www.cisco.com/c/en/us/products/collateral/networking/software/networking-subscription-ds.html.

Product specifications

Table 2. Product specifications

Product	Specifications
Part numbers	 Cisco Wireless 9172 Access Points: Internal antennas CW9172I: Indoor access point with omnidirectional antennas CW9172H: Wall Plate, with Internal omnidirectional antennas
Software	Cisco Wireless 9172I - Cisco IOS XE Software Release 17.15.2b or later Cisco Wireless 9172H - Cisco IOS XE Software Release 17.17.1 or later
Supported Wireless LAN controllers	 Cisco Catalyst 9800 Series Wireless Controllers (physical or virtual) Cisco Catalyst 9000 switches with Embedded Wireless Controller in SDA mode.

Product	Specifications			
802.11be	 2x2 with two spatial streams (2.4 GHz, 5 GHz, and 6 GHz) or 2x2 with two spatial streams (2.4 GHz) and 4x4 with four spatial streams (5 GHz) 			
	• 4096 QAM			
	Multilink operation			
	Preamble puncturing			
	Uplink/downlink OFDMA			
	• TWT			
	BSS coloring			
	Maximal Ratio Combining (MRC)			
	• 20-, 40-, 80-, 160-, and 320-MHz channels (6 GHz)			
	• 20-, 40-, 80-, and 160-MHz channels (5 GHz)			
	 20-MHz channels (2.4 GHz) 			
	CW9172I:			
	 PHY data rates up to 9 Gbps (2x2 320 MHz on 6 GHz, 2x2 160 MHz on 5 GHz, and 2x2 20 MHz on 2.4 GHz) or PHY data rates up to 6.0 Gbps (4x4 160 MHz on 5 GHz, 2x2 20 MHz on 2.4 GHz) 			
	 Packet aggregation: Aggregate MAC Protocol Data Unit (A-MPDU) (transmit and receive), Aggregate MAC Service Data Unit (A-MSDU) (transmit and receive) 			
	802.11 Dynamic Frequency Selection (DFS)			
	Cyclic Shift Diversity (CSD) support			
	 Wi-Fi Protected Access 3 (WPA3) support 			
	CW9172H:			
	 PHY data rates up to 9 Gbps (2x2 320 MHz on 6 GHz, 2x2 160 MHz on 5 GHz, and 2x2 20 MHz on 2.4 GHz) 			
	 Packet aggregation: Aggregate MAC Protocol Data Unit (A-MPDU) (transmit and receive), Aggregate MAC Service Data Unit (A-MSDU) (transmit and receive) 			
	802.11 Dynamic Frequency Selection (DFS)			
	Cyclic Shift Diversity (CSD) support			
	Wi-Fi Protected Access 3 (WPA3) support			
802.11ax	 2x2 with two spatial streams (2.4 GHz, 5 GHz, and 6 GHz) or 2x2 with two spatial streams (2.4 GHz) and 4x4 with four spatial streams (5 GHz) 			
	Uplink/downlink OFDMA			
	• 1024 QAM			
	• TWT			
	BSS coloring			
	• MRC			
	802.11ax beamforming			
	• 20-, 40-, 80-, and 160-MHz channels (5 and 6-GHz)			
	• 20-MHz channels (2.4-GHz)			
	CW9172I			
	 PHY data rates up to 5 Gbps (2x2 20 MHz on 2.4 GHz, 2x2 160 MHz on 5 GHz, and 2x2 160 MHz on 6 GHz) or PHY data rates up to 5 Gbpz (2x2 20 MHz on 2.4 GHz, 4x4 160 MHz on 5 GHz) 			
	 Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) 			
	• 802.11 DFS			
	CSD support			
	WPA2/WPA3 support			

Product	Specifications
	CW9172H
	 PHY data rates up to 5 Gbps (2x2 20 MHz on 2.4 GHz, 2x2 160 MHz on 5 GHz, and 2x2 160 MHz on 6 GHz)
	 Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)
	• 802.11 DFS
	CSD support
	WPA2/WPA3 support
802.11ac	• 2x2 + 2x2 downlink MU-MIMO with 2x2 spatial streams
	• MRC
	802.11ac beamforming
	• 20-, 40-, 80-, and 160-MHz channels
	CW9172I:
	 PHY data rates up to 3.4 Gbps (4x4 160 MHz on 5 GHz) or PHY data rates up to 1.7 Gbps (2x2 160 MHz on 5 GHz)
	Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)
	• 802.11 DFS
	CSD support
	WPA2/WPA3 support
	CW9172H:
	• PHY data rates up to 1.7 Gbps (2x2 160 MHz on 5 GHz and 2x2 20 MHz on 2.4 GHz)
	 Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)
	• 802.11 DFS
	CSD support
	WPA2/WPA3 support
802.11n version 2.0	• 2x2 MIMO with four spatial streams
(and related capabilities)	• MRC
	 802.11n and 802.11a/g beamforming 20- and 40-MHz channels
	CW9172I:
	 PHY data rates up to 440 Mbps (2x2 40 MHz with 5 GHz and 2x2 20 MHz with 2.4 GHz) or 744 Mbps (4x4 40 MHz on 5 GHz and 20 MHz with 2.4 GHz)
	 Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)
	• 802.11 DFS
	CSD support
	CW9172H:
	• PHY data rates up to 440 Mbps (2x2 40 MHz with 5 GHz and 2x2 20 MHz with 2.4 GHz)
	Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)
	• 802.11 DFS
	CSD support

Product	Specifications	
Integrated Antenna	 CW9172I 2.4GHz: Peak gain 4dBi, internal antenna, omnidirectional in azimuth 5GHz: Peak gain 5.5dBi, internal antenna, omnidirectional in azimuth 6GHz: Peak gain 6dBi, internal antenna, omnidirectional in azimuth IoT: Peak gain 2dBi, internal antenna, omnidirectional in azimuth CW9172H 2.4GHz: Peak gain 3dBi, internal antenna, omnidirectional in azimuth 5GHz: Peak gain 5dBi, internal antenna, omnidirectional in azimuth IoT: Peak gain 5dBi, internal antenna, omnidirectional in azimuth IoT: Peak gain 5dBi, internal antenna, omnidirectional in azimuth IoT: Peak gain 5dBi, internal antenna, omnidirectional in azimuth 	
Interfaces	 CW9172I: 1x100M/1000M/2.5G Multigigabit Ethernet (RJ-45) Uplink Management console port (RJ-45) with default speed of 115200 bps USB 2.0 at 4.5W CW9172H: 1x100M/1000M/2.5G Multigigabit Ethernet (RJ-45) Uplink Management console port (RJ-45) with default speed of 115200 bps 3x100M/1000M Ethernet LAN ports 1xLAN port capable of POE out 1x Passthrough port 	
Incorporated Radios	 CW9172I Wi-Fi 7 802.11be on all three radios 2.4GHz + 5GHz + 6GHz (all 2x2:2) or 2.4 GHz (2x2:2) + 5 GHz (4x4:4) Dedicated Scan/aux Radio and IoT (BLE 6) Radio CW9172H Wi-Fi 7 802.11be on all three radios 2.4GHz + 5GHz + 6GHz (all 2x2:2) Dedicated Scan/aux Radio and IoT (BLE 6) Radio 	
Indicators	Status LED indicates boot loader status, association status, operating status, boot loader warnings, and boot loader errors	
Dimensions (WxLxH)	CW9172l (without mounting brackets): • 7.8 x 7.8 x 2.1 in. (20 x 20 x 5.3 cm) CW9172H (without mounting brackets): • 5.1 x 7.0 x 1.0 in (13 x 18 x 2.6 cm)	
Weight	CW9172I: • 1.9 lb (874g) CW9172H • 1.26 lb (572 g)	

Product	Specifications						
Mounting Brackets	CW9172I: • AIR-AP-BRACKET-1 or AIR-AP-BRACKET-2 CW9172H: • CW-MNT-H1 • CW-MNT-H3 • MA-MNT-MR-H1A • AIR-AP-BRACKET-W4						
Input Power Requirements	CW9172I:						
	Power Source	2.4 GHz Radio	5 GHz Radio	6 GHz Radio	Link Speed	USB	Max PoE Requirement at PD
	802.3bt class 5 (UPOE)	2x2	2x2	2x2	2.5 G	Y (4.5 W)	32 W
	802.3 at (PoE+)	2x2	2x2	2x2	2.5 G	N	25.5 W
	802.3 at (PoE+)	2x2	4x4	-	2.5 G	N	25.5 W
	802.3 af (PoE)	1x1	-	-	1G	Ν	12.95 W
	CW9172H:						
	Power Source	2.4 GHz Radio	5 GHz Radio	6 GHz Radio	Link Speed	POE Out	Max PoE Requirement at PD
	802.3bt class 5 (UPOE)	2x2	2x2	2x2	2.5 G	Y (15.4W)	41 W
	802.3 at (PoE+)	2x2	2x2	2x2	2.5 G	N	25.5 W
	802.3 af (PoE)	1x1	-	-	1G	Ν	12.95 W
Environmental	 CW9172I: Non operating (storage) temperature: -40 to - 158 F (-40 to 70 C) Non operating (storage) altitude test: 0 - 550mbar (at approx. 4863m, 16K ft) Operating temperature : 32 to 122 F (0 to 50 C) Radio operation derated for 104F to 122F (40C to 50C) Operating humidity : 0 to 95% (noncondensing) Operating altitude test: 45C at 0- 4205m (13.8K ft) CW9172H : Non operating (storage) temperature: -40 to - 158 F (-40 to 70 C) 						

Product	Specifications			
	 Non operating (storage) altitude test: 0 - 550mbar (at approx. 4863m, 16K ft) Operating temperature : 32 to 104 F (0 to 40 C) Operating humidity : 0 to 95% (noncondensing) Operating altitude test: 45C at 0- 4205m (13.8K ft) 			
System Memory	 4096 MB DRAM 16 GB storage flash			
Available Transmit Power Settings	Ags2.4 GHz:• 23 dBm (200 mW)• -4 dBm (0.39 mW)5 GHz:• 23 dBm (200 mW)• -4 dBm (0.39 mW)6 GHz:• 23 dBm (200 mW)• -4 dBm (0.39 mW)6 GHz:• 23 dBm (200 mW)• -4 dBm (0.39 mW)Note: In countries where use of the 6-GHz band is not allowed or there is no cursoftware support, the 6-GHz radio will be disabled. The radio may be enabled we future software, once the product is certified to operate in 6 GHz for that country			
Compliance Standards	 Safety: IEC 60950-1 / IEC 62368-1 Ed.3 (with Ed.2 Deviation annex) EN 60950-1 / EN 62368-1 Ed.3 (with Ed.2 Deviation annex) UL 60950-1 / UL62368-1 3rd (with Ed.2 Deviation annex) CAN/CSA-C22.2 No. 60950-1 / CAN/CSA-C22.2 No. 62368-1 3rd (with Ed.2 Deviation annex) CAN/CSA-C22.2 No. 62368-1 3rd (with Ed.2 Deviation annex) AS/NZS60950.1 / AS/NZS62368.1 Ed.3 (with Ed.2 Deviation annex) UL 2043 Class III equipment Emissions: CISPR 32 (rev. 2015) +AMD1:2019 EN 55032:2015/A11:2020 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013+A1:2019 AS/NZS CISPR32: 2015+AMD1:2020 47 CFR FCC Part 15B ICES-003 (Issue 7, Class B) VCCI-CISPR 32:2016 CNS 13438:2006 (95) KS C 9832:2019 QCVN 118:2018/BTTTT Immunity: EN 55035:2017+A11:2020 	• Radio:		

Product	Specifications	Specifications			
	 KS C 9835:2019 Emissions and immunity: EN 301 489-1 V2.2.3 (2019-11) EN 301 489-17 V3.2.4 (2020-09) QCVN (18:2014) QCVN 112:2017/BTTTT KS X 3124:2020 KS X 3126:2020 EN 61000-6-1:2019 EN 60601-1-2:2015+A1:2021 	 Advanced Encryption Standard (AES) - GCMP128, GCMP256 and CCMP256 Extensible Authentication Protocol (EAP) types: EAP-Transport Layer Security (TLS) EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol (MSCHAP) v2 Protected EAP (PEAP) v0 or EAP-MSCHAP v2 EAP-Flexible Authentication via Secure Tunneling (EAP-FAST) PEAP v1 or EAP-Generic Token Card (GTC) EAP-Subscriber Identity Module (SIM) 			
Certifications	 Wi-Fi Alliance: Wi-Fi 7 (R1), Wi-Fi 6 (R Open Security Bluetooth SIG: Bluetooth Low Energy 	2), Wi-Fi 6E, WPA3-R3, WPA3-Suite B, Enhanced			

Antenna patterns - Cisco Wireless 9172I

2.4GHz Radio







5GHz Radio 2X2



















Scan Radio Antenna Pattern





2.4 GHz BLE Radio







Ordering information

The Cisco Wireless 9172 Series Access Points are available. To order, please visit the Cisco Ordering home page or the Cisco Wireless Ordering Guide.

For additional product numbers, please check the Cisco Wi-Fi 7 products price list or contact your local Cisco account representative.

Warranty information

The Cisco Wireless 9172 Series Access Points come with a limited lifetime warranty that provides full warranty coverage of the hardware for as long as the original end user continues to own or use the product. The warranty includes 5-day advance hardware replacement and helps ensure that software media are defect-free for 90 days. For more details, visit <u>https://www.cisco.com/go/warranty</u>.

Product sustainability

Cisco embeds sustainability into every stage of a product's life cycle, from manufacturing to end of use. Designed with consideration for Cisco's Circular Design Principles, our products feature both individual and portfolio-wide programs and innovations, including those that address efficient architecture design, power consumption, energy management, sustainable packaging, and takeback. These elements are pivotal in reducing operational costs, achieving net-zero targets, and meeting other sustainability-related objectives.

Information about Cisco's environmental, social and governance (ESG) initiatives and performance is available in Cisco's CSR and sustainability <u>reporting</u>.

SustainabilityTopic		Reference
Power	Power Consumption Table	Typical and Idle Power Consumption of Standalone Access Points <u>Table 2 Product Specifications – Power Consumption</u>
AP Power Save Mode Port Scheduling	The Catalyst Center Dashboard offers comprehensive energy management capabilities, allowing users to monitor power usage, energy mix, costs, and CO2e emissions and optimize energy consumption in real-time. Catalyst Center Release Notes	
	AP Power Save Mode	AP power save allows user to disable certain features to reduce power consumption during off-business hours or redistribute power to important features in degraded PoE mode. AP Power Save Configuration Guide
	Port Scheduling	Port schedules allow user to turn off PoE power to access points on a custom schedule to reduce power consumption during off-business hours. Meraki Port Schedules

Table 3. Cisco product sustainability information

SustainabilityTopic		Reference	
Materials, Modularity, and Reuse	Hardware Modularity	AP bracket can be reused from legacy Cisco access points, reducing waste and simplifying upgrades.	
	Efficient AP architecture	Replaces diodes with FETs (field-effect transistors), reducing power loss.	
	Cisco Takeback and Reuse	Program allows customers to return used equipment for responsible recycling and reuse.	
		Takeback and Reuse	
	Cisco Refresh	Program offers certified remanufactured products, providing cost- effective alternatives to new equipment.	
		<u>Cisco Refresh</u>	
Packaging	Elimination of Single- use Plastic	Plastic bags for accessories replaced with paper packaging.	
	Fiber-based Packaging	Foam is replaced with a recyclable fiber-based solution.	
	Recycled Content	Corrugated materials contain recycled content.	
	Accessory Opt-out	Customer can choose to opt out of the default accessories	
		Cisco Wireless Access Point Ordering Guide	
	Multipack	Multipack packaging option for Catalyst and Meraki customers. Reduces the amount of packaging, simplifying large deployments and reducing shipping weight, costs, and carbon footprint.	
Regulatory Compliance	Environmental compliance	Information regarding Cisco compliance with applicable environmental laws and regulations is available at the "Environmental Compliance" section of Cisco's Purpose Reporting Hub.	
		Environmental Compliance	
	Product Approvals Status (PAS)	Information regarding the certification status for given Cisco products in certain countries is available at Cisco's self-service PAS (Product Approvals Status) database.	
		PAS Database	
	Product-Related Materials Compliance	Cisco's position regarding relevant product-related materials legislation (e.g., Restriction of Hazardous Substances (RoHS); Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH)) available.	
		RoHS and REACH	
	Waste Electrical and Electronic Equipment	Cisco's position regarding relevant product-related recycling, battery and packaging legislation available.	
	(WEEE), Battery and Packaging Compliance	WEEE, Battery & Packaging	
	Cisco Packaging Materials and Codes	Table provides packaging material identification for packaging used for Cisco products.	
		Packaging Materials and Codes	

SustainabilityTopic		Reference
General	Sustainability Inquiries	Contact this alias for questions and information related to Cisco's general and product-specific sustainability initiatives.
	Cisco Policies, Positions, and Guides	Links to select Cisco's Environmental Sustainability policies, positions, and guides are provided in the "Policies, positions, and guides" section of Cisco's Purpose Reporting Hub. Policies, Positions, and Guides
	Cisco Green Pay	An overview of Cisco Green Pay, a financing program aimed at promoting more sustainable technology adoption by providing flexible payment options. Green Pay

Cisco and partner services

With Cisco Services, you can achieve infrastructure excellence faster with less risk. From an initial WLAN readiness assessment to implementation, full solution support, and in-depth training, our services for the Cisco Wireless 9172 Series provide expert guidance to help you successfully plan, deploy, manage, and support your new access points. With unmatched networking expertise, best practices, and innovative tools, Cisco Services can help you reduce overall upgrade, refresh, and migration costs as you introduce new hardware, software, and protocols into the network. With a comprehensive lifecycle of services, Cisco experts will help you minimize disruption and improve operational efficiency to extract maximum value from your Cisco infrastructure. For more information, please visit http://www.cisco.com/go/services.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.

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