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HPE Networking Instant On Switch Series

Discover why Flotek is the smarter partner for your business



HPE Internal use only





Key features



Simplicity at its best

- Plug-and-play switches that work together with Instant On APs right out of the box.
- Mobile app provides complete control, with no license or subscription fees.
- PoE scheduling allows user to configure a specific day/time of the week (e.g., business hours) for Instant On switches to supply power to connected devices.
- Management choice: Instant On cloudbased management (via mobile app and web portal), local web GUI, or zero configuration needed with unmanaged models.



Reliable performance

- Grow quickly and simply with stacking and high-speed 10G uplinks.
- Static IPv4 routing: Supports manual or DHCP IP address assignments to individual VLAN.
- Automatically recognizes IP phones and prioritize voice traffic. Easy setup to segment voice traffic to dedicated voice network for optimal performance.
- Class 4 and Class 6 PoE enables powering of devices like IP phones, cameras, wireless APs, etc. without the cost of additional wiring.

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Built in security

- Supports Access Control Lists (ACLs).
- Supports 802.1X, Port Security VLANs for enhanced security.
- ARP attack prevention and DHCP Snooping for additional security enhancements.
- MAC Authentication: Secure your network by authenticating devices based on their physical MAC addresses.



We've got you covered

- Support in all the right places: Limited Lifetime warranty.
- 24X7 90-day Phone and chat support (for entire warranty period).
- Robust Instant On community.
- Add-on Services options: Affordable service packages offering extended 24x7 phone support (contact the partner where you purchased your gear).

Smart-managed switches | Unmanaged switches | 5 to 48 port



HPE Networking Instant On wired portfolio

Unmanaged	Smart-managed		Smart-managed and stackable
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Price

Functionality

Smart-managed stackable switches



- SMBs with higher throughput demands will benefit from the 10GbE stack and uplink ports
- Boutique hotels that have many access ports throughout the facility benefit from stacking
- 10GbE Base-T and SFP+ ports provide more bandwidth when stacking or uplinking to other IT closets
- Ports can support Class 6 PoE to power modern lighting or highdef security cameras
- The 1960 switches are designed to handle voice and video calls and other bandwidth-heavy traffic
- True Stacking allows for redundancy while making it simple to configure, manage and troubleshoot multiple switches

Technical details

12-port Multi-gig PoE
10GbE Aggregation 10GbE RJ-45, SFP+
24-port PoE, non-PoE models
48-port PoE, non-PoE models

- L2+ Smart Managed Stackable Switch
- Up to 176Gbps throughput
- Up to 600w PoE budget
- Stacking support up to 4 switches
 - Supports a ring or chain topology
 - Hybrid stacking can pair any 1960 model together
- Built-in Security Features
 - RADIUS support
 - Port ACL
 - TPM-Based security
 - ARP and DoS attack prevention
- IPv6 capability
- Automatic STP and Loop protection
- Link Aggregation up to 16 trunks

Why stacking is important

Supported on the HPE Networking Instant On 1960 Switch Series

- Convenient deployment: Stack members can be located within the site and/or at long distances. Switches can be stacked using any of the 1G/10G ports
- Scalability: Up to four 1960 switches can be stacked together, with a single management IP address, simplifying network operation up to 208 ports
- **Simplified management and configuration**: Supports True Stacking, making it easy to configure and manage physical switches as one single entity and helping scale the organization's network as it grows.
- Flexibility: Stacking at 1G and 10G ports (no dedicated stack ports), hybrid stack supports stacking Aggregation and Access switches together



HPE Networking Instant On Switch Series 1960 aggregation switch

10x 10GBase-T Ports, 4x SFP+ Ports



- Connects other switches available in different location of the same site or across sites
- Supports hybrid stacking mixing access and aggregation switches in one stack
- Aggregation switch is ideal as a core for highperformance small business network



HPE Networking Instant On multi-Gig access switch with PoE

4x 2.5GbE + 8x 1GbE copper ports



- Support for next-generation 2.5GbE hardware such as Wi-Fi 6 devices, high-performance workstations, and IOT
- 480W of PoE budget to support modern lighting and next-generation 2.5GbE devices
- Hybrid stacking: Mix the 1960 series switches via 10GbE uplink Base-T or SFP+ ports into one stack

HPE Networking Instant On Switch Series 1960 competitive comparison

	Instant On 1960	Netgear S3300	Cisco 350X	Cisco Business 350
Routing	L2+ with static routes	L2+ with static routes	L2+ with static routes	L2+ with dynamic routes
Stacking	4H	6H	4H	4H
Ports and HW Features	12, 24, 48 port Gigabit SFP+, 10GBase-T 12-port Aggregator	24, 48 port Gigabit SFP+, 10GBase-T No aggregator in same family (M4300 only)	8, 24, 48 port Gigabit SFP+, 10G Combo Aggregator Multi-Gigabit	8, 16, 24, 48 port Gigabit SFP+, 10G Combo Aggregator Multi-Gigabit
PoE Power	Class4 PoE Class6 PoE (select ports)	Class4 PoE	Class4 PoE Class6 PoE (select ports)	Class4 PoE Class6 PoE (select ports)
24 port	370W (4p Class6)	195W	195W/ 390W (4p/8p Class6)	195W/ 370W (4p/8p Class6)
48 port	600W (8p Class6)	390W	382W/ 740W (8p Class6)	370W/ 740W (0p/8p Class6)
Management	WebUI SNMP read/write Instant On Cloud Management	WebUI SNMP read/write	WebUI SNMP read/write CLI Smart Network Application (SNA)	WebUI SNMP read/write CLI Cisco Business Dashboard
Warranty	LLTW	LLTW	LLTW	LLTW



HPE Networking Instant On Switch Series 1960 competitive comparison (contd.)

	Instant On 1960	D-Link 1510	D-Link 3420	TP-Link TL-SG3428X	TP-Link T1700G-28TQ
Routing	L2+ with static routes	L2+ with static routes	L2+ with static routes	L2+ with static routes	L2+ with static routes
Stacking	4H	6Н	12H	-	6H
Ports and HW Features	24, 48 port Gigabit SFP+, 10GBase-T 12-port Aggregator	16, 24, 48 port Gigabit SFP, SFP+ No aggregator	24, 48 port Gigabit 1G Combo, SFP+ No aggregator	24 port Gigabit SFP+	24 port Gigabit SFP+
PoE Power	Class4 PoE Class6 PoE (select ports)	Class4 PoE	Class4 PoE	-	-
24 port	370W (4p Class6)	193W/ 370W	370W	-	-
48 port	600W (8p Class6)	370W	370W	-	-
Management	WebUI SNMP read/write Instant On Cloud Management	WebUI SNMP CLI	WebUI SNMP CLI	WebUI SNMP CLI Cloud based controller	WebUI SNMP CLI
Warranty	LLTW	LLTW		LLTW	LLTW

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Model configuration

HPE Networking Instant On Switch Series 1960	Ports	Uplink Ports	Class 4 PoE Ports	Class 6 PoE Ports
HPE Networking Instant On Switch 12p 10GBT 4p SFP+ 1960	12x 10GbE	4x SFP+	-	-
HPE Networking Instant On Switch 8p Gigabit CL4 4p SR2.5G CL6 PoE 2p 10GBT 2p SFP+ 480W 1960	8x 1GbE 4x 2.5GbE	2x SFP+ 2x 10BaseT	8	4
HPE Networking Instant On Switch 24p Gigabit 2p 10GBT 2p SFP+ 1960	24x 1GbE	2x SFP+ 2x 10BaseT	-	-
HPE Networking Instant On Switch 20p Gigabit CL4 4p Gigabit CL6 PoE 2p 10GBT 2p SFP+ 370W 1960	24x 1GbE	2x SFP+ 2x 10BaseT	20	4
HPE Networking Instant On Switch 48p Gigabit 2p 10GBT 2p SFP+ 1960	48x 1GbE	2x SFP+ 2x 10BaseT	-	_
HPE Networking Instant On Switch 40p Gigabit CL4 8p Gigabit CL6 PoE 2p 10GBT 2p SFP+ 600W 1960	48x 1GbE	2x SFP+ 2x 10BaseT	40	8



Smart-managed L2+ switches with fiber uplinks



- Great for SMBs that are looking for more capacity and throughput
- User-dense environments using cloud-based applications like educational institutes
- 10GbE uplinks can be used to expand your network or direct attach micro servers on the edge
- Expanded PoE ports and budget allow more flexibility in device support
- 8 port models with SFP port provide connectivity to isolated labs or smaller offices in your building



Technical details



- L2+ Smart-managed Gigabit Ethernet
- Up to 176Gbps switching capacity
- 1.5MB packet buffer
- 2x SFP and SPF+ Ports on 24-, 48-port models
- Up to 370W PoE Budget
- Built in security
 - TPM Chip
 - 802.1Q VLAN support
 - Port based ACL
 - DHCP Snooping
 - ARP and DoS attack protection
 - RADIUS Support
- Supports wall, rack and under desk mounting



Competitive comparison

	Instant On 1930	Netgear SmartPro	Netgear Insight	Cisco Small Business SG250	Ubiquiti Unifi Gen 1
Routing	L2+ with static routes	L2+ with static routes	L2+ with static routes	L2+ with static routes	L2
Ports and HW Features	8, 24, 48 port Gigabit SFP+ on 24/48-port Fanless: 8p, 8p PoE, 24p, 48p	8, 16, 24, 48 port Gigabit SFP Fanless: 8p, 8p PoE 55W/75W/120W, 16p, 24p	8, 24, 48 port Gigabit 2SFP, 2SFP+ on 24/48p Fanless: 8p, 8p PoE 62W/134W	8, 16, 24, 48 port Gigabit SFP Fanless: 8p, 8p PoE 45W/65W, 16p, 24p	8, 16, 24, 48 port Gigabit 2SFP, 2SFP+ on 48p Fanless: 8p, 8p PoE
PoE Power	Class4 PoE Enabled on all ports	Class4 PoE	Class4 PoE	Class4 PoE	Class4 PoE
8 port	124W	55W / 120W 75W / 130W / 190W	62W/134W/195W	45W/62W	60W/150W
16 port	-	240W	-	-	150W
24 port	195W / 370W	190W/380W	390W	100W/195W	250W/500W
48 port	370W	380W/760W	505W	192W/375W	500W/750W
Management	WebUI SNMP read/write Instant On Cloud	WebUI SNMP read/write Insight Remote/Cloud Manageable (On selected SKUs)new	WebUI SNMP read/write Insight Remote/Cloud Manageable	WebUI SNMP read/write CLI Cisco SB Smart Network Application (SNA)	UniFi Controller (WebUI) SNMP read/write (CLI - not officially supported)
Warranty	LLW	LLW	5-year warranty	LLW	One year



Model configuration

HPE Networking Instant On Switch Series 1930	Gigabit Ports	Class 4 PoE	Uplink Ports
HPE Networking Instant On Switch 8p Gigabit 2p SFP 1930	8	-	2 SFP
HPE Networking Instant On Switch 8p Gigabit CL4 PoE 2p SFP 124W 1930	8	124W	2 SFP
HPE Networking Instant On Switch 24p Gigabit 4p SFP+ 1930	24	-	4 SFP/SFP+
HPE Networking Instant On Switch 24p Gigabit CL4 PoE 4p SFP+ 195W 1930	24	195W	4 SFP/SFP+
HPE Networking Instant On Switch 24p Gigabit CL4 PoE 4p SFP+ 370W 1930	24	370W	4 SFP/SFP+
HPE Networking Instant On Switch 48p Gigabit 4p SFP+ 1930	48	-	4 SFP/SFP+
HPE Networking Instant On Switch 48p Gigabit CL4 PoE 4p SFP+ 370W 1930	48	370W	4 SFP/SFP+



Cost-effective, entry-level smart-managed switches



- Smaller organizations with limited PoE hardware
- Retail shops with Point-of-Sale or offices with security cameras
- Deployments where guest connectivity is a must, but cost is a limiting factor
- Larger PoE budget provides power to more devices
- 8-port model can be powered by upstream PoE+



Technical details



- Up to 104 Gbps capacity
- 1.5 MB Packet Buffer
- Built-in security
 - TPM Module
 - Automatic DoS protection
 - Global Storm Control
- Energy Efficient from the start
 - EEE Support
 - Auto port shutdown
 - Fan-less design, efficient cooling
- RSTP prevents looping without setup
- LLDP discovers connected devices to facilitate network mapping

Competitive comparison

	Instant On 1830	Netgear S350	Cisco Small Business SG220	Cisco Business CBS220	Ubiquiti UniFi
Routing	L2	L2	L2	L2	L2
Ports and HW Features	8, 24, 48 port Gigabit Fanless: 8p, 8p PoE, 24p	8, 24, 48 port Gigabit Fanless: 8p, 8p PoE, 24p	24, 48 port Gigabit Fanless: 24p, 48p	8, 16, 24, 48 port Gigabit Fanless: 8p, 8p PoE, 16p, 16p PoE, 24p	8, 16, 24, 48 port Gigabit Fanless: 8p, 8p PoE
PoE Power	Class4 PoE	Class4 PoE	Class4 PoE	Class4 PoE	Class4 PoE
8 port	65W (4p PoE)	55W	-	65W/130W	60W (4p PoE)/ 150W
16 port	-	-	-	130W	150W
24 port	195W (12p PoE)	190W	180W/375W	195W/382W	250W/500W
48 port	370W (24p PoE)	-	375W	382W	500W/750W
Management	WebUI SNMP Instant On Cloud Management	WebUI SNMP, Smart Control Center (SCC), NMS	WebUI SNMP, CLI Cisco FindIT Utility	WebUI, SNMP, CLI Cisco Business Dashboard and Mobile App	UniFi Controller
Warranty	LLTW	5-year warranty	LLTW	3-year warranty	2-year warranty



Model configuration

HPE Networking Instant On Switch Series 1830	PoE (ports)	Uplink Ports	Class 4 PoE (up to 30W per port)	Class 3 PD (powered device)
HPE Networking Instant On Switch 48p Gigabit CL4 PoE 4p SFP 370W 1830	24 x 1GbE	4 x 1GbE SFP	370W	-
HPE Networking Instant On Switch 48p Gigabit 4p SFP 1830	-	4 x 1GbE SFP	-	-
HPE Networking Instant On Switch 24p Gigabit CL4 PoE 2p SFP 195W 1830	12 x 1GbE	2 x 1GbE SFP	195W	-
HPE Networking Instant On Switch 24p Gigabit 2p SFP 1830	_	2 x 1GbE SFP	-	-
HPE Networking Instant On Switch 8p Gigabit CL4 PoE 65W 1830	4 x 1GbE	-	65W	-
HPE Networking Instant On Switch 8p Gigabit 1830	_	_	-	Port 1



Plug-and-play **unmanaged** switches designed for small business



- Best for users that don't have complex environments
- Non-distracting hardware that can hide in plain sight
- Ideal for home office or small office environments with limited technical know-how
- Limited Lifetime Warranty gives your users peace of mind knowing the hardware is supported
- The plug-and-play operation and fully automated functions have more value than just a hub
- PoE features in a small footprint make setting up hardware in unique areas easy

The versatile anywhere, anytime for anyone switch



- Customer-facing locations where a clean cableless appearance is required
- Class-B Certification for use in connected homes
- Unmanaged hardware makes for quick and
- simple network expansion
- Up to 56Gbps capacity
- Packet buffer up to 12MB Protocols supported
 - Flow Control
 - Jumbo Frames for large file transfer
 - 802.1x EAPoL Forwarding
 - 802.1p DSCP Traffic Prioritization
 - Spanning-Tree

HPE Networking Instant On Switch Series 1430 competitive overview

Descripti	on	Instant On 1430	Netgear GS-1XX	Netgear JGS-XX	Cisco Small Buss. SG-110	Cisco Buss. CBS-110	D-Link DGS-XX
Ports and HW Features		5, 8, 16, 24, 26 port Gigabit	5, 8, 16 port Gigabit	16, 24 port Gigabit	5, 8, 16, 24 port Gigabit	5, 8, 16, 24 port Gigabit	5, 8, 16, 24 port Gigabit
Fanless		All SKUs	All SKUs	All SKUs	All except 24p PoE	All except 24p PoE	All SKUs
Uplinks		26+2 SFP	None	None	24+2 Combo (PoE & non- PoE)	24+2 Combo (PoE & non- PoE)	8+1 SFP+ 1 1000Base-T
	PoE Power	PoE+	PoE+	PoE+	PoE	PoE	PoE+
	• 5 port	-	-	-	-	-	60W (4p PoE+)
ΡοΕ	8 port	64W (8p PoE+)	60W (8p PoE+)	-	32W (4p PoE)	32W (4p PoE)	80W (4p PoE+) 125W (8p PoE+)
	• 16 port	124W (16p PoE+)	183W (16p PoE+)	-	64W (8p PoE)	64W (8p PoE)	-
	• 24 port	-	-	-	100W (12p PoE)	100W (12p PoE)	-
Warranty		LLTW	LLTW	LLTW	LLTW	LLTW	LLTW

Why HPE Networking Instant On Switch Series 1430 wins

- Versatile unmanaged switch series: Unmanaged series includes range of port counts, with and without PoE, 26-port model with 2 additional SFP fiber uplink ports, and Class B certified 5- and 8-ports models for home office use.
- Support you can depend on: Limited Lifetime warranty with advanced shipment, 24X7 phone support for the first 90 days and chat support for the entire warranty period.
- Global market leading vendor you can trust: HPE Networking is a recognized worldwide leader in WLAN and wired, SMB and enterprise.

Model configuration

HPE Networking Instant On Switch Series 1430	Gigabit Ports	PoE Ports	Class 4 PoE (up to 30W per port)	Uplink Ports (SFP)
HPE Networking Instant On Switch 5p Gigabit 1430	5	-	-	-
HPE Networking Instant On Switch 8p Gigabit 1430	8	_	-	-
HPE Networking Instant On Switch 8p Gigabit CL4 PoE 64W 1430	8	8	64W	-
HPE Networking Instant On Switch 16p Gigabit 1430	16	-	-	-
HPE Networking Instant On Switch 16p Gigabit CL4 PoE 124W 1430	16	16	124W	-
HPE Networking Instant On Switch 24p Gigabit 1430	24	-	-	-
HPE Networking Instant On Switch 26p Gigabit 2p SFP 1430	26	_	-	2



HPE Networking Instant On Wired Portfolio

	Instant On 1430	Instant On 1830	Instant On 1930	Instant On 1960
Port Size	5, 8, 16, 24, and 26	8, 24, and 48	8, 24, and 48	Access Switch – 12, 24, 48; Aggregation switch – 12
PoE	Class 4 on 8-, 16-port models	Class 4 (first half of ports are PoE)	Class 4 (full)	Class 4 and 6 (select)
Stacking	No	No	No	Yes, True Stacking* (local, cloud-managed, Hybrid)
Uplinks	SFP with 26-port	SFP on 24-, 48-port only	SFP on 8-port, SFP+ on 24-, 48-port	10GbE Base-T and SFP+
Fans	Fanless: all models	Fanless: 8-, 24-port	Fanless: 8-port models and non-PoE 24-, 48-port	Fanless: 24 port non-PoE
Management	Unmanaged	mobile app, cloud portal, or local web UI	mobile app, cloud portal, or local web UI	mobile app, cloud portal, or local web UI
Use-cases	Budget-constrained small businesses and home offices looking for simple connectivity (PoE and non-PoE) with no configuration or management required.	Cost-efficient small business environments that require both PoE and connectivity to devices like surveillance cameras and access points and non-PoE support to devices like desktop computers	Small businesses looking to connect wired devices within their network like wireless APs, printers, surveillance cameras and PoS systems	Growing small businesses looking for 10GbE connectivity with different wired devices like surveillance cameras, VoIP phones and wireless access points (APs) and high-end servers and storage
Ideal deployment	Home offices and small offices	Home offices, retail stores and small professional offices	Small café, retail stores, medical offices, professional offices	Boutique hotels, high-powered tech- startups, small nursing homes, training facilities



 $\ensuremath{^*\text{True}}$ Stacking allows for redundancy while simplifying administration.



HPE Networking Instant On transceivers and DACs



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Why buy HPE Networking Instant On transceivers and DAC Cables?



- Tested and 100% validated to work with Instant On switches and select HPE OfficeConnect switches
- Eliminate guesswork during installations with Instant On branded transceivers
- Deploy Instant On switches with 10G SR transceivers (up to 300m) to connect servers and storage
- **Connect Instant On switches** to other switches / routers with 1G SX transceivers (up to 500m)
- **1m and 3m DAC cables** are ideal for connections between 1930s and for building 1960 switch stacks

HPE Networking Instant On branded transceivers and DAC cables

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HPE Networking Instant On transceivers and DAC cables have been built with small businesses in mind and are supported on HPE Networking Instant On branded switches and select HPE OfficeConnect switches.

Product description	SKU	
HPE Networking Instant On 1G LX SFP LC 10km SMF Transceiver	SOG20A	
HPE Networking Instant On 10G LR SFP+ LC 10km SMF Transceiver	SOG21A	R9D16A R9D17A R9D18A S0G18A
HPE Networking Instant On 1G SFP LC SX 500m OM2 MMF Transceiver	R9D16A	R9D18A S0G18A S0G21A S0G20A
HPE Networking Instant On 10G SFP+ LC SR 300m OM3 MMF Transceiver	R9D18A	
HPE Networking Instant On 1G SFP RJ45 100m Cat5e Transceiver	R9D17A	
HPE Networking Instant On 10GBASE-T RJ45 30m Cat6a Transceiver	SOG18A	
HPE Networking Instant On 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	R9D19A	
HPE Networking Instant On 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	R9D20A	R9D19A R9D20A

HPE Networking Instant On transceivers compatibility matrix

- Warranty: 3 Years
- 3 or 5-year Foundation Care for Instant On switches covers inserted Instant On Transceivers
- Hardware Replacement: 10 days

Compatibility ³	Instant On 1430	Instant On 1830	Instant On 1930	Instant On 1960	OfficeConnect 1420	OfficeConnect 1820	OfficeConnect 1920S	OfficeConnect 1950
R9D16A – 1G SFP ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
R9D17A – 1G RJ45 ¹	N/A	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
R9D18A - 10G SPF+ ²	N/A	N/A	\checkmark	\checkmark	\checkmark	N/A	N/A	\checkmark
S0G18A – 10G RJ45 ²	N/A	N/A	\checkmark	\checkmark	N/A	N/A	N/A	N/A
SOG20A – 1G SFP ¹	\checkmark	\checkmark	\checkmark	\checkmark	N/A	N/A	N/A	N/A
S0G21A - 10GSFP+ ³	N/A	N/A	\checkmark	\checkmark	N/A	N/A	N/A	N/A

Notes:

¹ Supported on SFP and SFP/SFP+ capable ports

² Supported on SFP+ and SFP/SFP+ capable ports

³ Products not listed in the table above are not supported or entitled to TAC (Technical Assistance Center) support

compatible

N/A - not applicable

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R9D16A R9D18A S0G21A

SOG20A

R9D17A S0G18A

HPE Networking Instant On DAC cable compatibility matrix

- Warranty: 3 Years
- 3 or 5-year Foundation Care for Instant On switches covers inserted Instant On DACs
- Hardware Replacement: 10 days

Compatibility ²	Instant On 1430	Instant On 1830	Instant On 1930	Instant On 1960	OfficeConnect 1420	OfficeConnect 1820	OfficeConnect 1920S	OfficeConnect 1950
R9D19A – 1m DAC ¹	N/A	N/A	\checkmark	\checkmark	\checkmark	N/A	N/A	\checkmark
R9D20A – 3m DAC ¹	N/A	N/A	\checkmark	\checkmark	\checkmark	N/A	N/A	\checkmark

Notes:

¹ Supported on SFP+ and SFP/SPF+ capable ports

² Products not listed in the table above are not supported or entitled to TAC (Technical Assistance Center) support

compatible

N/A - not applicable





















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