

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

C8300-UCPE-1N20

Cisco Network Hardware Specification, Availability and Quote Reference

Product Model	C8300-UCPE-1N20
Document Type	Product Datasheet
Condition	Brand New, Original and Verified
Supplier	Layer23-Switch.com

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C8300-UCPE-1N20 Datasheet

The Cisco C8300-UCPE-1N20 datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the C8300-UCPE-1N20 and integrate it into enterprise or service provider networks with confidence.

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Key Features

20-core uCPE compute profile

The 20-core Intel Xeon D platform gives branch teams more headroom for Cisco Catalyst 8000V and additional VNFs than the smaller 8-core Catalyst 8200 Edge uCPE profile.

Seven in-chassis LAN/WAN interfaces

Four 10G SFP+ ports and three 1G RJ-45 ports let the BOM cover higher-speed WAN handoffs and copper management or access links without starting from a pure 1G branch platform.

Cisco NFVIS hosting model

C8300-UCPE-1N20 is built around Cisco NFVIS as the hypervisor layer, so procurement should treat the hardware, NFVIS image, and Catalyst 8000V software plan as one configuration.

Mandatory Cisco DNA subscription planning

Cisco ordering guidance requires a Cisco DNA subscription for Catalyst 8000V routing VNF use, and all Cisco DNA subscription tiers require a Smart Account or Virtual Account.

Configurable memory and storage

The platform supports 32 GB to 128 GB DRAM, M.2 boot storage choices, and optional U.2 storage, which affects how much compute and storage capacity is available for the planned branch services.

Redundant AC or DC power choice

The default hardware order ships with two power supplies for redundancy, and the quote must choose the correct 400W AC or 400W DC power path before power cords and site power are finalized.

Specification

Parameter	Specification	Parameter	Specification
Product ID	C8300-UCPE-1N20	Product Type	Edge uCPE router platform
Form Factor	1RU	CPU	Intel Xeon D-2796NT 20 cores at 2.0 GHz base frequency
Default DRAM	32 GB	Supported DRAM Range	32 GB to 128 GB
DIMM Slots	4 x DDR4 DIMM slots	In-Chassis Ethernet Ports	7 LAN/WAN Ethernet ports
10G Ethernet Ports	4 x 10 Gigabit Ethernet SFP+ ports	1G Copper Ports	3 x 1 Gigabit Ethernet RJ-45 ports
Expansion Slots	1 NIM slot and 1 PIM slot	M.2 Storage	75 GB USB M.2, 600 GB NVMe, or 2 TB NVMe
Optional U.2 Storage	0, 1, or 2 U.2 2.5-inch drives with 2 TB or 4 TB options	Other Management Ports	RJ-45 IMC console, RJ-45 IMC CLI, Micro-USB NFVIS console, USB-A 3.0
NFVIS Management Port	Any one of three 1G RJ-45 ports can be configured for NFVIS device management	SD-WAN IPsec Throughput	Up to 6.8 Gbps IMIX with Cisco Catalyst 8000V on 8 cores
SD-WAN IQDF Throughput	Up to 4.2 Gbps IMIX with Cisco Catalyst 8000V on 8 cores	Autonomous IPv4 CEF Throughput	Up to 12.4 Gbps IMIX with Cisco Catalyst 8000V on 4 cores
Minimum Cisco IOS XE Release	Cisco IOS XE Unified Release 17.12.1	Power Supply Options	PWR-CC1-400WAC or PWR-CC1-400WDC
Default Power Configuration	Two power supplies for redundancy	Dimensions	1.73 in x 17.5 in x 17.5 in
Chassis Weight	19 lb (8.61 kg)	Input Voltage	100 to 240 VAC or -40 to -72 VDC
Operating Temperature	40 C at 10000 ft long-term operating; 55 C at 6000 ft short-term per GR-63	Operating Humidity	5 to 85% ambient noncondensing
Operational Altitude	13000 ft with derating above 10000 ft		

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- WhatsApp: [+8617181189993](#)
- Wechat: [layer23-switch](#)
- Telegram: [layer23_switch](#)
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