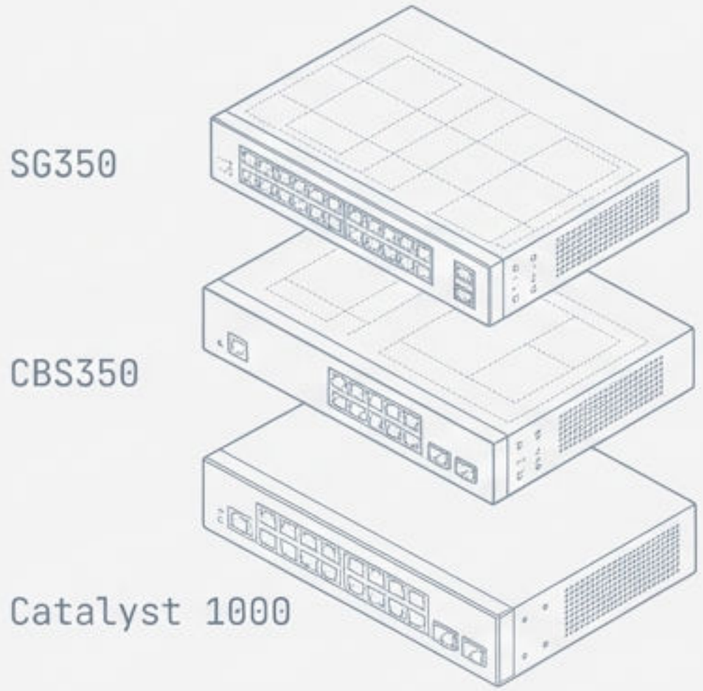
The Cisco Catalyst 1300 & 1300X Series

The Ultimate Enterprise Edge Selection Guide

The Next Generation of SMB Networking

Evolution Timeline



Perpetual Hardware Model

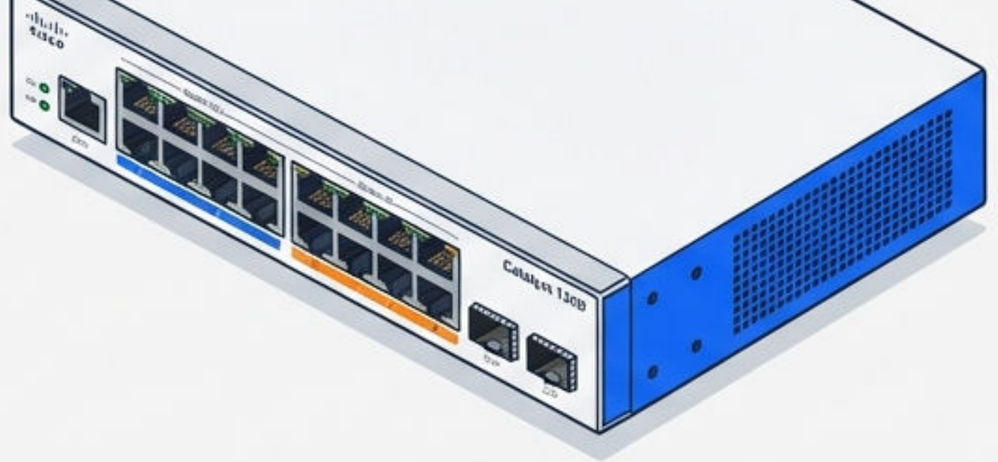
Zero mandatory Cisco DNA software subscriptions.

Simplified Management

Intuitive Web UI & deep Cisco Business Dashboard integration.

Engineer Ready

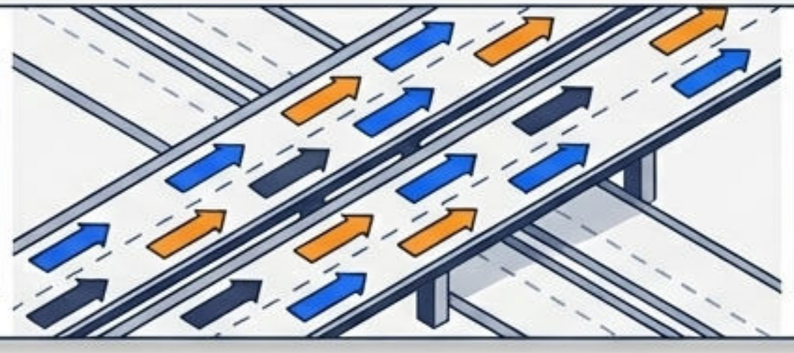
Retains full CLI support alongside modern Layer 2 and Lite Layer 3 routing.



The direct evolutionary successor to the Catalyst 1000 and SG350 lines, merging deployment simplicity with raw enterprise power.

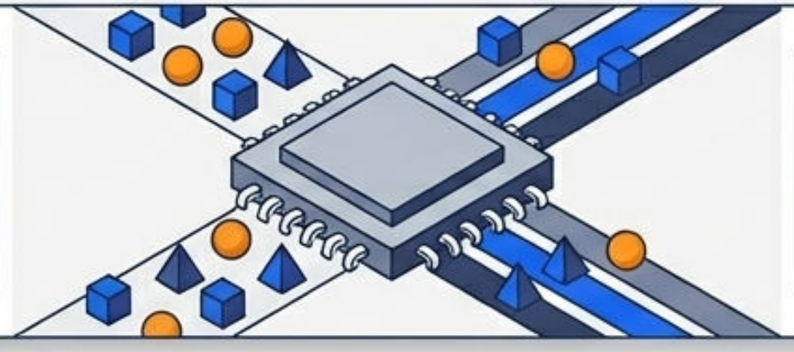
Decoding the Specs: The Business Impact

Up to 480 Gbps



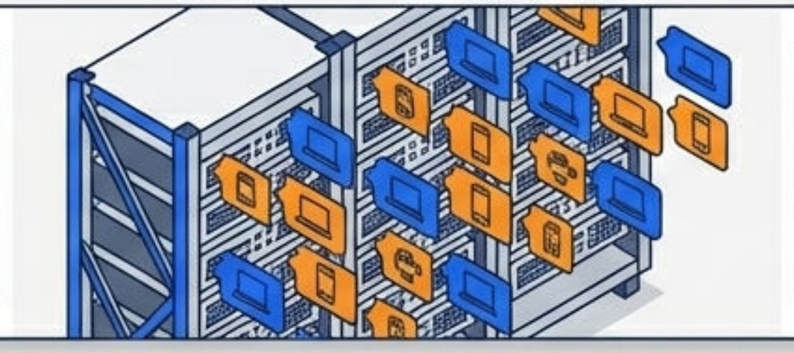
Avoid Congestion: Zero network lag during simultaneous mass file downloads and high-definition video calls.

Up to 357.14 Mpps



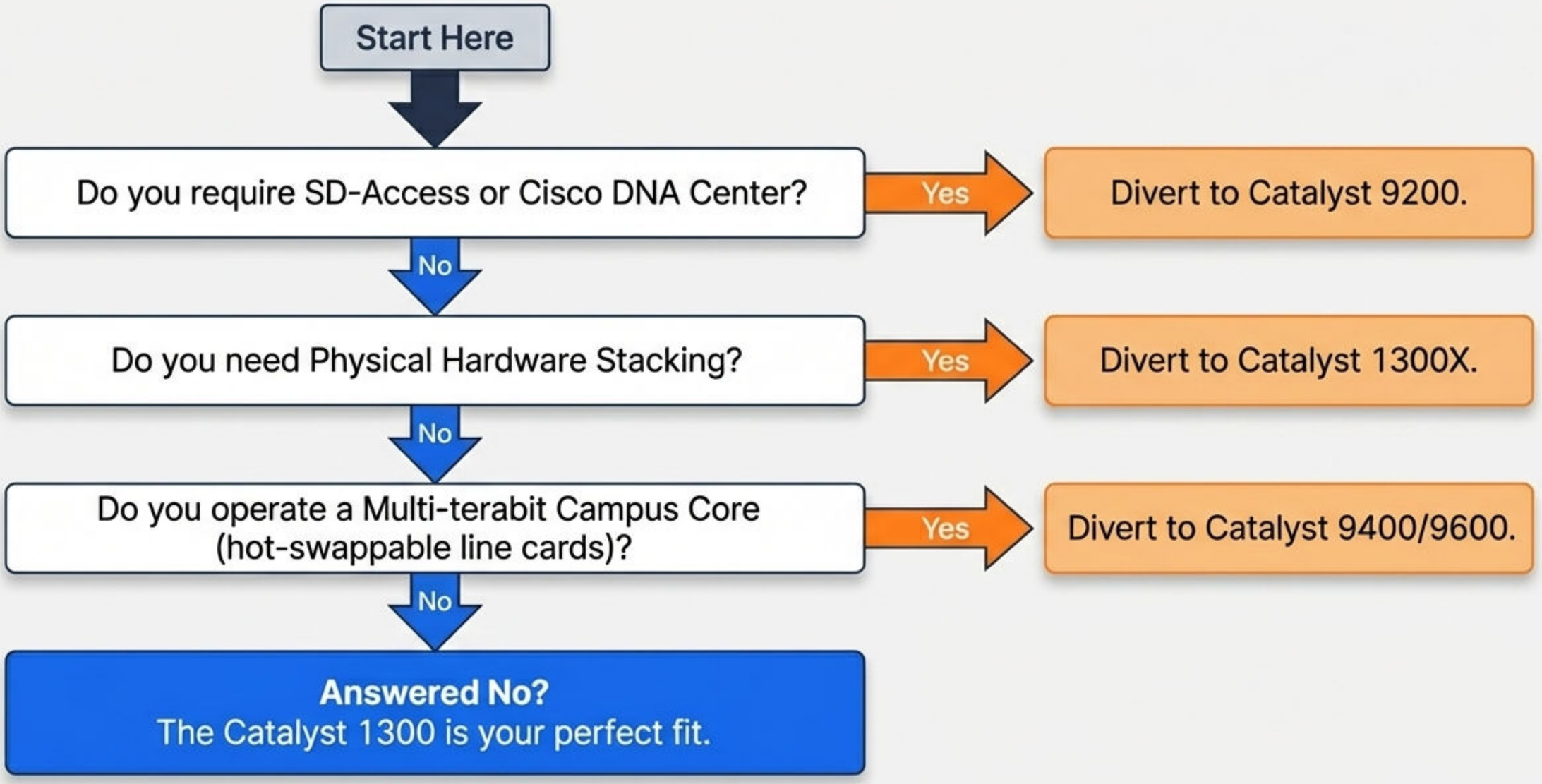
High Traffic Stability: Instant response times for mission-critical CRM/ERP applications during peak traffic spikes.

Up to 32K Addresses



Maximum Endpoints: Massive scaling capacity for enterprise laptops, smartphones, and IoT devices before performance degrades.

The Diagnostic Flowchart: Is the C1300 Right for You?



Head-to-Head: Catalyst 1300 vs. 1300X

Cisco C1300	Cisco C1300X
SMB Access / Network Edge	Advanced Aggregation / High-Performance Edge
1G SFP or 10G SFP+	10G / 25G SFP28
Not Supported	True Hardware Stacking (Up to 25G bandwidth)
PoE+ (Up to 30W per port)	PoE+ / PoE++ (Up to 60W per port on mGig)
Layer 2 / Lite Layer 3 (Static)	Enhanced Layer 3 (Includes OSPF dynamic routing)

Verdict: Choose 1300 for standalone edge. Upgrade to 1300X for physical stacking, OSPF routing, and 25G future-proofing.

Blueprinting Your Network: Scenario Matching

C1300-8P-E-2G

Fanless 67W PoE+ for silent open-desk areas.

C1300-24P-4G

Balanced 195W budget for 24-desk PC & VoIP networks.

C1300-48FP-4X

Massive 740W budget & 10G uplinks for zero-latency surveillance.

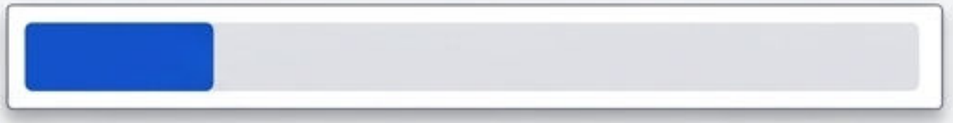
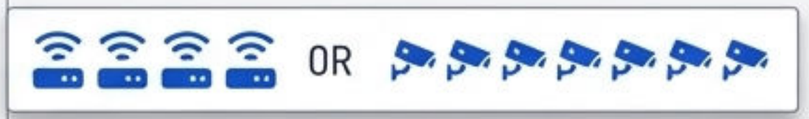
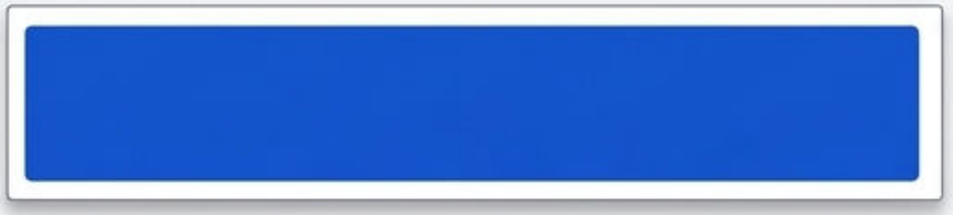
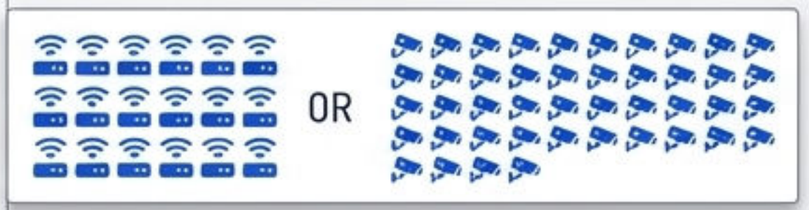
C1300-24MGP-4X

2.5G mGig ports to obliterate wireless bottlenecks.

C1300-24XTS

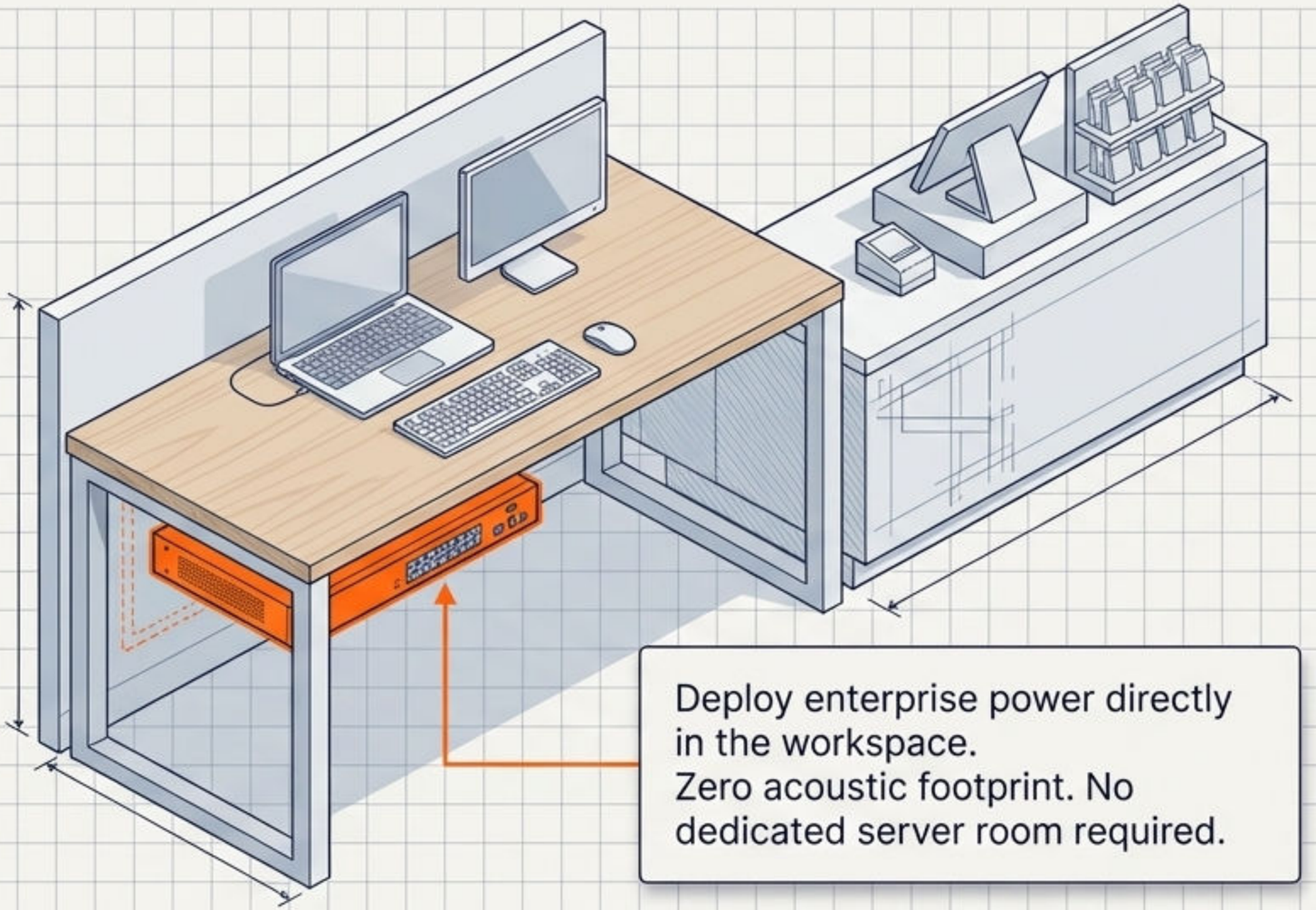
480 Gbps collapsed core with 50/50 10G copper and fibre.

Powering the Edge: Demystifying PoE Capacity

67W | C1300-8P-E		
120W | C1300-8FP / 16P		
195W | C1300-24P		
382W/385W | C1300-48P / 1300X-24MU		
740W (Full PoE) | C1300-48FP		

Estimations based on 15W per IP Camera and 30W per Wi-Fi 6 AP.

The Silent Edge: Deploying Fanless Models



Deploy enterprise power directly in the workspace.
Zero acoustic footprint. No dedicated server room required.

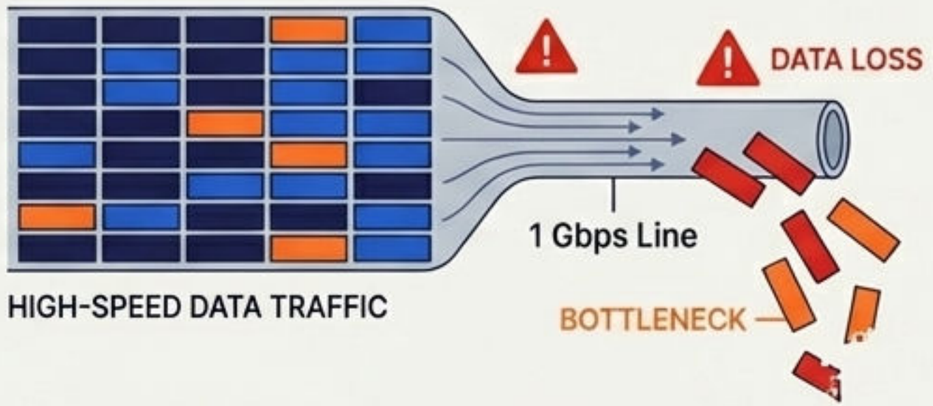
Fanless Hardware Lineup

- All 8-port models (e.g., `C1300-8T-E-2G`, `C1300-8P-E-2G`)
- All 16-port models (e.g., `C1300-16T-2G`, `C1300-16P-2G`)
- Select 24-port models (`C1300-24T-4G`, `C1300-24P-4G`)

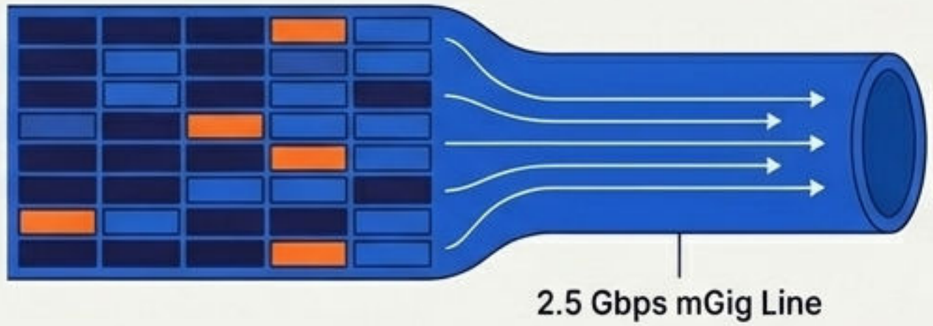
Breaking the Gigabit Bottleneck: Multi-Gigabit (mGig)

Modern high-density Wi-Fi 6 and Wi-Fi 7 access points push far more traffic than standard 1 Gbps lines can handle.

The Problem



The Solution



The C1300-24MGP-4X Solution

Utilises IEEE 802.3bz to negotiate 2.5 Gbps or 5 Gbps over your existing Cat5e or Cat6 cabling.

Essential technology to unleash the peak throughput of your wireless network without re-cabling your building.

The Hardware Matrix: Compact & Edge (8–16 Ports)

Model	Downlink / Uplink	Capacity	Power / Acoustic	Best Use Case
C1300-8T-E-2G	8x 1G / 2x 1G	20 Gbps	Fanless	Basic micro-branch
C1300-8P-E-2G	8x 1G / 2x 1G	20 Gbps	67W (PoE+) Fanless	Small office VoIP
C1300-8FP-2G	8x 1G / 2x 1G	20 Gbps	120W (PoE+) Fanless	High-draw APs
C1300-16T-2G	16x 1G / 2x 1G	36 Gbps	Fanless	Desktop data expansion
C1300-16P-2G	16x 1G / 2x 1G	36 Gbps	120W (PoE+) Fanless	Compact wireless

The Hardware Matrix: Density, Core & 1300X

Model	Downlink / Uplink	Capacity	Power / Acoustic	Best Use Case
C1300-24P-4G	24x 1G / 4x 1G SFP	56 Gbps	195W PoE+ Fanless	Standard VoIP network
C1300-48FP-4X	48x 1G / 4x 10G SFP+	176 Gbps	740W PoE+	Heavy Surveillance
C1300-24MGP-4X	24x mGig / 4x 10G SFP+	176 Gbps	375W PoE+	Wi-Fi 6 Networks
C1300-24XTS	12x 10G RJ45 + 12x 10G SFP+	480 Gbps		SMB Core / Aggregation
C1300X-48T-4X	48x 1G / 4x 25G SFP28	176 Gbps		L3 Aggregation
C1300X-24MU-4X	24x mGig / 4x 25G SFP28	128 Gbps	385W PoE++	Next-gen performance

Expert FAQs: The Procurement Edition

Mandatory DNA Licenses?

No. The C1300 operates on a highly cost-effective perpetual hardware model. Zero recurring software subscriptions.

Legacy Replacement?

Yes. It is the official, vastly improved successor to the end-of-life SG350, CBS350, and Catalyst 1000 series.

CLI Support?

Yes. Alongside the intuitive Web UI, traditional engineers retain full Command Line Interface (CLI) access.

What is ‘P’ vs ‘FP’?

‘P’ indicates standard moderate PoE+. ‘FP’ indicates ‘Full PoE’ (up to 740W), engineered to power heavy-draw devices across every port simultaneously.

Enterprise Procurement Powered by Layer23-Switch

Bypass Lead Times.

Extensive in-stock availability of core C1300 models for rapid global deployment.

Optimise Budgets.

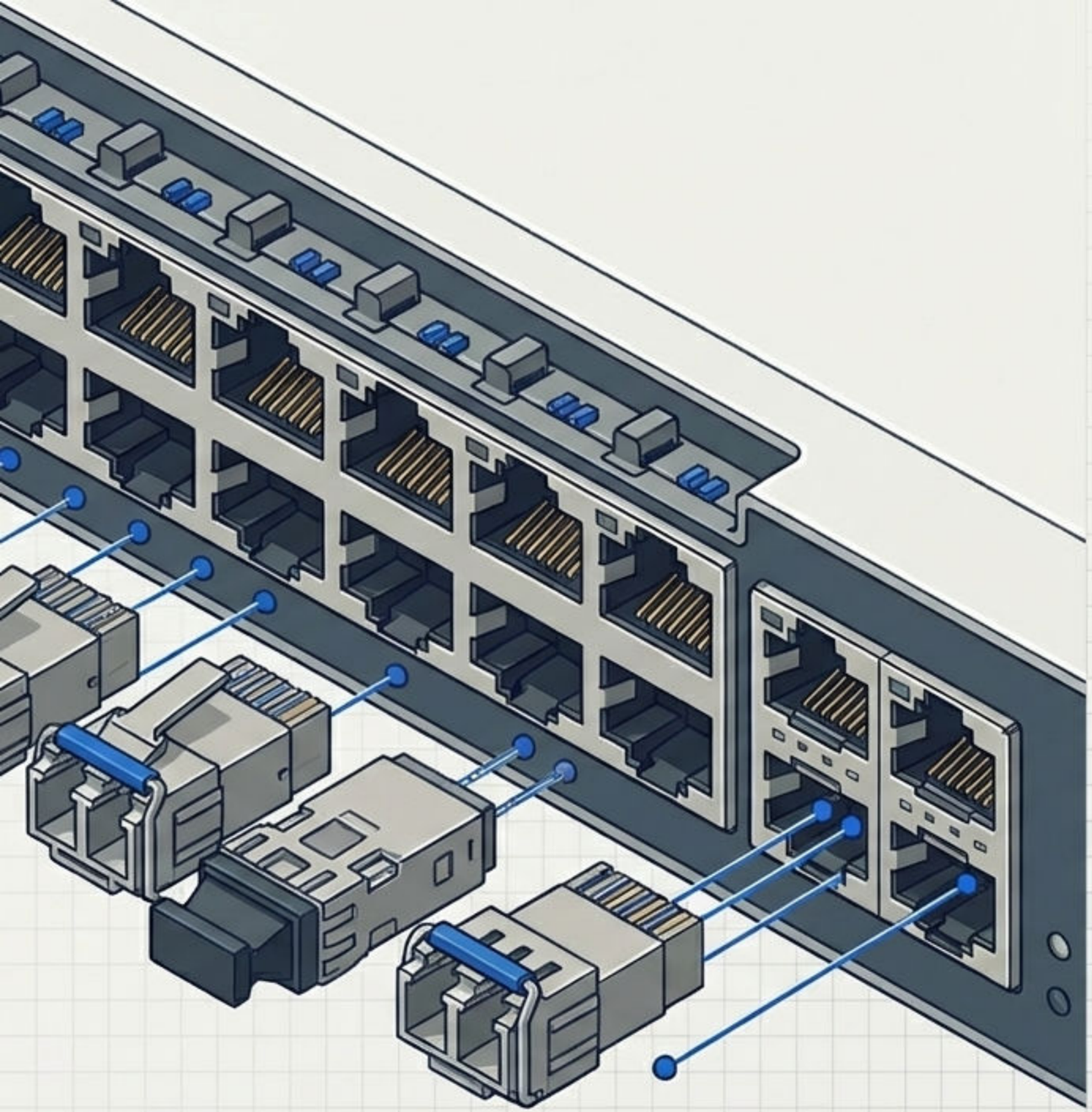
Highly competitive, customised enterprise discounts for multi-site rollouts.

Choice & Control.

Select from brand-new, in-box units or certified refurbished stock to stretch your IT dollar.

Expert Brainpower.

Free pre-sales assistance with network topology design, SKU matching, and strict PoE budget calculations.



Secure Your Enterprise Edge Edge Today.

Ready to bypass manufacturer delays and upgrade your network? Get a customised volume quote, verify your specific PoE budgets, and explore our full, ready-to-ship inventory.

Scan to connect with our engineering team or visit Layer23-Switch.