

MCP SERVER

NO CODE

CLOUD HOSTED

Discount Stack Calculator MCP for AI Agents

Calculate complex retail pricing and multi-layered discount totals accurately.

Discount Stack Calculator handles complex retail pricing by layering multiple discount types and applying regional tax logic. It manages sequential percentage drops, fixed currency reductions, BOGO offers, and threshold rewards to provide accurate final totals for e-commerce and retail transactions.

A+ Quality Score 100/100

pricing

discounts

taxation

bogo

ecommerce-tools



The connectivity layer between AI and the world's software.



Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.

— Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1)
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at cloud.vinkius.com — connect your AI agent in under 60 seconds.

Discount Stack Calculator MCP

5 tools available

Cloud-hosted on Vinkius

Imagine you're running a massive holiday sale. A customer wants to buy five items, but they're trying to stack a 20% off sitewide coupon, a \$10 off first-purchase code, and a buy-one-get-one deal on three of those items. On top of that, you need to know if the state tax applies to the original price or the discounted amount. Doing this in your head or even in a basic spreadsheet is a recipe for errors that eat into your margins. This MCP takes that headache off your plate. It acts as a specialized pricing engine that your AI agent can call to get the exact final total every time. Instead of guessing how discounts compound, you just tell your agent the rules, and it handles the math. Whether you're figuring out if a spend 100 get 20 off deal actually works after a percentage discount is applied, or if a specific regional tax rule needs to be triggered, this tool gives you the right number. It's a core part of the Vinkius catalog designed for high-accuracy retail math where rounding errors or incorrect tax logic can cost real money.

Core Capabilities

01 — Calculate BOGO deals

Figures out the final price for multiple items with buy-one-get-one offers.

03 — Stack percentage discounts

Compounds multiple percentage drops sequentially to find the new subtotal.

05 — Check spend thresholds

Verifies if a purchase qualifies for rewards based on the total spent.

02 — Apply fixed coupons

Subtracts specific currency amounts from a subtotal.

04 — Run regional tax logic

Determines the final price based on local tax rules and discount order.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/discount-stack-calculator — connect your AI agent in three steps.

- 01 Provide the base price and the list of active discounts like percentages or fixed amounts.
- 02 Specify the regional tax rules and whether they apply before or after the discounts.
- 03 Receive the final subtotal, total savings, and the final price including tax.

The bottom line is you get accurate, multi-layered pricing for complex retail transactions without manual calculation.

Built For

This is for retail ops managers and e-commerce owners who deal with messy promotional stacks. It's for the person who's tired of arguing with customers over the math doesn't add up or worrying about tax compliance on discounted goods.

E-commerce Manager

Verifies complex promotional rules for seasonal sales.

Pricing Analyst

Models how different discount layers affect profit margins.

Retail Ops Lead

Ensures consistent pricing across different regional storefronts.

What Changes When You Connect

- 01 Eliminate pricing errors by using `percentage_stacking` to compound multiple discounts correctly.
- 02 Save time on manual math by using `bogo_logic` to instantly calculate large quantity orders.
- 03 Ensure tax compliance across regions by applying `regional_taxation` rules to different subtotal bases.

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- 04 Protect your margins by using `threshold_incentive` to verify reward eligibility before checkout.

 - 05 Simplify coupon management by using `fixed_reduction` to handle standard currency-based discounts.

 - 06 Get instant transparency on total savings by having your agent report the exact percentage dropped.
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Real-World Applications

Holiday Sale Verification

A customer wants to stack a 15% off coupon with a \$20 off first-order code. The agent uses `percentage_stacking` and `fixed_reduction` to show the final price.

Regional Tax Compliance

A store in a state with specific pre-tax rules needs a final total. The agent uses `regional_taxation` to get the right amount.

Bulk Order Pricing

A B2B buyer wants 10 units of a product with a BOGO deal. The agent uses `bogo_logic` to find the cost.

Rewards Eligibility

A user is \$5 away from a spend 100 get 10 off deal. The agent uses `threshold_incentive` to check the current status.

Patterns to Avoid

Adding discounts together

✗ AVOID

A user tries to add 20% and 10% to get 30%.

✓ INSTEAD

Use `percentage_stacking` to compound them correctly.

Ignoring tax order

✗ AVOID

A user applies tax to the full price when it should be on the discounted price.

✓ INSTEAD

Use `regional_taxation` to specify the tax timing.

Manual BOGO math

X AVOID

A user tries to count free items manually for large orders.

✓ INSTEAD

Use bogo_logic to handle the quantity math automatically.

The Right Fit

Use this if you need to calculate the final price of a retail item that has multiple overlapping promotions, such as a Buy One Get One deal combined with a percentage-off coupon and a fixed-amount gift card. It's perfect for e-commerce platforms or brick-and-mortar retail systems where tax rules vary by region and might apply to different stages of the calculation. Don't use this if you only need to subtract a single discount from a price, as a simple calculator is faster. Also, don't use it for complex inventory management or shipping calculations; this tool is strictly for the math of the transaction total.

Discount Stack Calculator Retail Pricing Accuracy

Retailers often struggle with the discount stack. When a customer applies a loyalty coupon, a seasonal percentage discount, and a bulk-buy offer all at once, the math gets messy. Staff have to flip through different tabs, check regional tax rules, and manually calculate the final total to make sure the store isn't losing money.

This MCP changes that. Your AI agent can handle the entire stack in one go. Just tell it the rules, and it will run the math through the correct sequence of percentage_stacking, fixed_reduction, and regional_taxation. You get a single, accurate final price every time.

Discount Stack Calculator Regional Tax Compliance

Manually tracking whether a state requires tax on the pre-discount or post-discount subtotal is a constant headache for multi-state sellers. It's easy

With this tool, your agent handles the regional_taxation logic automatically. It identifies the correct tax base and applies the rate perfectly.

to miscalculate, leading to either under-collecting tax or over-charging the customer.

You stop worrying about the math and start focusing on the sale.

Discount Stack Calculator 5 Retail Pricing Tools

Use these tools to calculate BOGO deals, stack multiple discounts, check spend rewards, and apply regional taxes accurately.

#	TOOL	DESCRIPTION
01	<code>bogo_logic</code>	Calculates the price impact of buy-one-get-one promotions on a specific quantity.
02	<code>fixed_reduction</code>	Subtracts a specific dollar or currency amount from a subtotal.
03	<code>percentage_stacking</code>	Compounds multiple percentage discounts one after another and returns the total savings.
04	<code>regional_taxation</code>	Calculates final prices based on regional tax rates and specific tax timing rules.
05	<code>threshold_incentive</code>	Evaluates whether a purchase meets the spending requirements for a specific reward.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U I have a \$200 jacket. It's 20% off, and I have a \$10 coupon. What's the total?



The jacket's price after the 20% discount is \$160.00. After applying the \$10 coupon, the final subtotal is \$150.00.

U If I buy 3 items at \$50 each with a BOGO deal, how much do I pay?



For 3 items at \$50 each with a Buy One Get One offer:

- Item 1: \$50.00
- Item 2: \$0.00 (Free)
- Item 3: \$50.00

Total: \$100.00

U The subtotal is \$100. Tax is 8%. Apply tax to the discounted price. What's the total?



With an 8% tax rate applied to the \$100.00 discounted subtotal:

- Subtotal: \$100.00
- Tax: \$8.00

Grand Total: \$108.00

Frequently Asked Questions

01 Can the Discount Stack Calculator handle multiple coupons at once?

Yes, it handles multiple layers like percentage drops and fixed currency reductions sequentially.

02 How does the Discount Stack Calculator handle BOGO deals?

It calculates the impact of Buy One Get One offers on any quantity you specify.

03 Can I use the Discount Stack Calculator for regional taxes?

Yes, it handles regional tax logic including whether to tax the pre-discount or post-discount amount.

04 Does the Discount Stack Calculator support spend thresholds?

It can evaluate if a purchase meets specific spending requirements for rewards or incentives.

05 Is the Discount Stack Calculator good for e-commerce?

It's built specifically for retail and e-commerce pricing math where complex promotions are common.

06 How does the Discount Stack Calculator handle different discount types?







It manages percentage stacking, fixed reductions, and BOGO logic in a single flow.

Go Live in 60 Seconds

Get your connection token from cloud.vinkius.com, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
 Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"discount-stack-calculator": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
 Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  **Ask ChatGPT** 
-  **Ask Claude** 
-  **Ask Perplexity** 
-  **Ask Gemini** 
-  **Ask Grok** 

READY TO CONNECT

Discount Stack Calculator is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and
start building. No SDK. No deployment. Just results.

[Start at cloud.vinkius.com](https://cloud.vinkius.com) →

vinkius.com · support@vinkius.com

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