

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Coupon Savings Calculator MCP

Get exact promotional math and pricing validation instantly.

Coupon Savings Calculator handles the heavy lifting for retail math. It calculates final prices, compares unit costs for bulk buys, and checks if your proposed discounts actually follow business rules. Your AI client uses these tools to ensure promotional pricing is accurate and viable before you commit to a sale.

A+ Quality Score 100/100

savings

discounts

pricing

retail-math

promotions



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.

Coupon Savings Calculator MCP

4 tools available

Cloud-hosted on Vinkius

Stop guessing if a discount makes sense. This MCP gives your AI client the math tools needed to handle complex promotional pricing and retail calculations. Instead of relying on your agent to approximate percentages, you can use these tools to get exact figures for savings, unit costs, and target price points.

You can use it to verify if a bulk purchase discount actually lowers the cost per unit or if a specific discount percentage violates your established business rules. It also helps you work backward from a target savings goal to find the necessary original price. It is built for anyone who needs to run quick, accurate pricing scenarios without pulling out a manual calculator or building a spreadsheet for every single promo.

Core Capabilities

01 — Target Price Calculation

Your agent calculates the necessary base price to meet a specific savings amount.

02 — Bulk Unit Analysis

The AI compares how discounts affect the cost per unit during multi-item purchases.

03 — Discount Validation

Your client checks if a percentage discount is allowed under current business rules.

04 — Final Price Summaries

The MCP provides the exact final price and total savings for any given discount.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/coupon-savings-calculator — connect your AI agent in three steps.

- 01 Connect your MCP-compatible client to Vinkius.
- 02 Select the Coupon Savings MCP from the catalog.
- 03 Ask your AI client to perform a calculation or check a rule.
- 04 The AI uses the specific tool to return an exact result.

Connect the MCP to your client and start asking math questions.

Built For

This MCP is for professionals managing retail pricing, promotions, and inventory math.

Retail Merchandisers

They hand off discount scenarios to the AI to check pricing viability.

E-commerce Managers

They use the tool to calculate bulk savings and promotional impact.

Pricing Analysts

They rely on the tool to run precise math for target price points.

What Changes When You Connect

- 01

Removes manual calculation errors from promotional planning.
- 02

Validates discount rules to prevent unprofitable promotions.
- 03

Provides instant unit cost comparisons for bulk deals.
- 04

Calculates necessary base prices for specific savings targets.

Real-World Applications

Bulk Buy Planning

Calculate how much a customer saves per unit when buying multiple items at a discount.

Promotion Guardrails

Check if a new discount percentage is allowed by your business rules before launching it.

Reverse Pricing

Determine the original price needed to ensure a customer saves a specific dollar amount.

Quick Savings Checks

Get the final price and total savings for a single item discount instantly.

Patterns to Avoid

Relying on AI estimation

❌ AVOID

Asking your agent to guess if a 15% discount on a \$45 item is enough to hit a \$5 savings goal.

✓ INSTEAD

Use `calculate_threshold_price` to find the exact starting price needed to reach your specific savings target.

Ignoring unit cost changes

⚠ AVOID

Assuming a bulk discount is profitable without checking if the price per item drops too low.

✓ INSTEAD

Run `get_unit_cost_comparison` to see exactly how much the individual unit price changes during multi-item deals.

Launching unverified promotions

⚠ AVOID

Setting a new seasonal discount percentage and hoping it doesn't break your margin rules.

✓ INSTEAD

Use `validate_promo_viability` to check if a proposed discount stays within your established business constraints.

The Right Fit

Connect this MCP if you manage retail pricing, e-commerce margins, or promotional calendars. Do not connect it if you only need general math help. The decision depends on whether you need to validate specific discount rules against business constraints.



Coupon Savings Calculator Tools for Precise Retail Math

These tools handle the heavy lifting for promotional pricing, unit cost analysis, and discount validation.

#	TOOL	DESCRIPTION
01	calculate_threshold_price	Finds the required starting price to hit a specific savings target. It answers exactly what the original price needs to be to reach your goal.
02	get_unit_cost_comparison	Compares the cost per item when applying discounts to bulk purchases. It shows how much a discount changes the individual unit price.
03	get_savings_summary	Calculates the total money saved and the final price of an item. It provides a clear breakdown of the discount impact.
04	validate_promo_viability	Checks if a proposed discount percentage stays within your set business rules. It flags whether a promotion is valid based on your constraints.

See It in Action

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

U How much will I save if a \$50 item has a 20% discount?



You will save \$10.00, and the final price will be \$40.00.

U If I buy 5 units of a \$10 item with a 15% discount, what is my total savings?



The total savings for 5 units will be \$7.50.

U What original price do I need for a 10% discount to save exactly \$5?



The required original price is \$50.00.

Frequently Asked Questions

01 How do I use this MCP with Claude?

You connect to Vinkius once, and the Coupon Savings MCP becomes available as a tool within your Claude interface.

02 Can this MCP check if my discounts are too high?

Yes, the `validate_promo_viability` tool checks if a discount percentage is valid according to your business rules.

03 Does it handle bulk purchase math?

Yes, the `get_unit_cost_comparison` tool specifically calculates how discounts affect the cost per unit for multiple items.

04 Can I find the original price needed for a specific discount?

Yes, use the `calculate_threshold_price` tool to find the original price required to hit a target savings amount.

05 Is there a way to see the final price after a discount?

Yes, the `get_savings_summary` tool provides both the total savings and the final price.

06 How do I calculate my total savings for multiple items?

You can use the `'get_unit_cost_comparison'` tool, which calculates the total savings across all units based on the original price, discount percentage, and quantity.

07 Can I check if a discount is within my business limits?

Yes, the `'validate_promo_viability'` tool allows you to check if a discount percentage falls within a specific minimum and maximum range.

08 How much should an item cost to save a specific amount?

Use the `'calculate_threshold_price'` tool to find the required original price needed to reach your target savings amount given a specific discount percentage.

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>"coupon-savings-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

Coupon Savings 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 →

vinkius.com · support@vinkius.com

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DOCUMENT INFORMATION

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Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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