MCP SERVER | NO CODE | CLOUD HOSTED

Contribution Margin Calculator MCP for AI Agents

Determine Unit Profitability and Product Portfolio Margins

The Contribution Margin Calculator provides specialized financial tools for measuring unit profitability and assessing product line health. It calculates margins after variable costs and taxes, determines portfolio-wide margin indices based on revenue weight, and flags specific products that fall below your required profit thresholds.

A+ Quality Score 100/100

margin | profitability | financial-tools | pricing | unit-economics

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JUNE 2026
vinkius.com/mcp/contribution-margin-calculator

SCAN TO VIEW

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.

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.

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.

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	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	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.

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.

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.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken 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.

Agent Activity

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

FinOps

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

Tool Health

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

Firewall & DLP

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

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.

Contribution Margin Calculator MCP

3 tools available
Cloud-hosted on Vinkius

Figuring out true product profitability is tough work, especially when you're juggling multiple cost inputs like tax rates and variable expenses. This MCP handles the deep dive into unit economics so you don't have to manually build complex spreadsheets. You can calculate a single item’s margin—both its dollar value and percentage index—in one step. Need to know if your entire product collection is making enough money? The tool determines the overall weighted margin for a group of products based on how much revenue each contributes. It also flags every item that falls short of your minimum profitability goals, saving you hours of manual auditing. You connect this MCP through Vinkius and let your AI client handle all the messy calculations, giving you clear, actionable data points instead of just numbers.

Core Capabilities

01 — Calculate single-product margin metrics

It determines both the currency value and percentage index for a product's contribution margin after accounting for taxes and variable costs.

02 — Determine portfolio weighted margin

The tool computes an aggregate margin index for multiple products by factoring in their relative impact on total revenue.

03 — Identify underperforming products

It flags specific items in a product list that fail to meet a required profitability threshold you set.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/contribution-margin-calculator** — connect your AI agent in three steps.

01 You feed your AI client the raw data, such as a list of products, their selling prices, and associated costs.

02 The agent calls the appropriate tool—for example, calculating the weighted margin for an entire product line or checking individual unit profitability against taxes.

03 Your agent returns structured financial metrics: precise margin indices, dollar amounts, and clear flags identifying underperforming items.

The bottom line is that you get immediate, accurate insights into exactly where your business profit comes from, without ever touching a spreadsheet.

Built For

This MCP targets financial analysts, product managers, and pricing directors. If your job involves figuring out which products are actually driving the company's profits—and if you're tired of manually cross-referencing cost sheets against sales data—you need this.

Financial Analyst

Runs detailed analyses on product portfolios to determine which lines are dragging down the overall margin index.

Product Manager

Uses unit margins to decide if a new feature or product variant is worth launching based on its potential profitability.

Pricing Director

Sets pricing tiers by simulating margin changes, ensuring that even discounted products meet the minimum required profit threshold.

What Changes When You Connect

01 Pinpoint poor performers instantly. Use `identify_underperforming_products` to get a list of exactly which items need a price increase or cost reduction.

02 Understand true profitability. The `calculate_unit_margin_metrics` tool provides both the dollar amount and percentage margin for any single item, factoring in taxes and variable costs.

03 Get the big picture view. You can run `calculate_portfolio_weighted_margin` to see one aggregate number that tells you how healthy your entire product mix is.

04 Save calculation time. Instead of building multiple spreadsheets, your agent handles complex weighted average math instantly.

05 Test pricing changes quickly. Model different cost structures and tax rates with the unit margin metrics before implementing them in reality.

Real-World Applications

Identifying drag on overall profit

A Product Manager needs to know if a new accessory line is hurting profitability. They ask their agent to run `calculate_portfolio_weighted_margin` across all product groups, immediately spotting that the accessories are pulling down the total margin index by 5%.

Revising pricing for low-profit items

A Pricing Director suspects certain seasonal goods aren't making enough money. They use `identify_underperforming_products` against a 20% threshold, receiving a clear list of the exact SKUs that need price adjustments.

Calculating profitability for new items

A Financial Analyst gets a sample product and needs to know its true margin. They use `calculate_unit_margin_metrics`, inputting selling prices, variable costs, and tax rates, and immediately get the precise contribution margin index.

Evaluating mixed revenue streams

A business owner wants to know if their three main service lines (Premium, Standard, Basic) are collectively profitable. They feed all the data into `calculate_portfolio_weighted_margin` for a single, weighted average figure.

Patterns to Avoid

Comparing gross revenue to profit

✗ AVOID

A user looks at total sales figures and assumes that because they sold $1M, they made $1M in profit. This ignores costs like taxes and variable expenses.

✓ INSTEAD

Don't just look at the top line. Use `calculate_unit_margin_metrics` to find out the *true* margin for individual items, or use `calculate_portfolio_weighted_margin` for a holistic view of total profitability.

Ignoring minimum profitability goals

✗ AVOID

A team decides to keep selling an item simply because it sells often, even if its low margin means it's losing money relative to the company goal.

✓ INSTEAD

Before keeping or promoting anything, run `identify_underperforming_products` against your required threshold. This tool tells you exactly what items fail to meet profitability standards.

Analyzing products in isolation

✗ AVOID

Calculating the margin of Product A on its own without considering how much revenue it represents compared to Product B.

✓ INSTEAD

Always look at the big picture. Use `calculate_portfolio_weighted_margin` to get a weighted average that reflects every product's true impact on the overall financial health.

The Right Fit

Use this MCP if your primary need is deep, quantitative understanding of profitability margins and unit economics. Specifically, use it when you need to know three things: 1) The absolute margin (currency value & %) for a single item; 2) How the entire product mix performs as an aggregate weighted average; or 3) Which products fall below your set profit floor. Don't use this if you just want basic sales reporting (e.g., total revenue last month). For simple data retrieval, another type of database connector might be better. If you are trying to forecast future cash flow based on market trends, a dedicated financial modeling tool will serve you better than margin calculation.

Using the Contribution Margin Calculator for Unit Economics in Pricing

Manually determining if a product is truly profitable involves gathering sales data, variable cost sheets, and tax rate tables. You then have to build complex formulas—calculating both dollar margin and percentage index—for every single item you want to evaluate. This process eats up hours of spreadsheet time.

With this MCP, your agent handles the math. Simply ask it to calculate unit margins for a given product list, factoring in taxes and variable costs automatically. You get back immediate, clean metrics showing both the dollar margin amount and the percentage index, allowing you to make pricing decisions in minutes.

How Contribution Margin Calculator Pinpoints Portfolio Health

Before this MCP, assessing a whole product line meant manually figuring out how much each sub-group contributed relative to the total revenue. You'd end up with disconnected numbers that made it impossible to determine the weighted average profit health of the collection.

Now, you can tell your agent to calculate the portfolio weighted margin for any mix of products. It gives you one single number that represents the true aggregate profitability across the board—a metric essential for executive reporting.

3 Contribution Margin Calculators for Unit Economics Analysis

Use these tools to measure single-unit profit, calculate weighted average margins across multiple products, or identify items that fail to meet profitability goals.

#	TOOL	DESCRIPTION
01	`calculate_portfolio_weighted_margin`	Determines the total average margin index for a collection of products based on how much they contribute to overall revenue.
02	`identify_underperforming_products`	Flags specific items from your list that drop below an established minimum profitability threshold.
03	`calculate_unit_margin_metrics`	Calculates both the absolute dollar value and percentage margin for a single product after taxes and variable costs are accounted for.

See It in Action

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

U What is the unit margin for a product sold at $1,200 with variable costs of $450 and an 8% tax rate?

Unit Margin Calculation

- Selling Price: $1,200.00
- Variable Costs (COGS): $450.00
- Tax Rate: 8%

Results:

- Contribution Margin Amount: **$756.00**
- Contribution Margin Index: **63%**

The item is highly profitable.

U Check the weighted margin for Product A (25% margin, 40% weight) and Product B (15% margin, 60% weight).

Portfolio Margin Analysis

The weighted average margin index is **23.5%**.

This calculation accounts for the fact that Product B generates more revenue, pulling the overall margin closer to its lower rate. This confirms your current mix requires attention.

U Identify any products below a 18% profit threshold from this list: X (15%), Y (22%), and Z (10%).

Underperforming Products Found:

The following items fall beneath the required 18% profitability floor:

- **Product X**: Margin is 15%. Needs cost review.
- **Product Z**: Margin is 10%. Requires immediate pricing or strategic change.

Frequently Asked Questions

01 **How do I figure out if my entire product line is profitable?**

You can use the Contribution Margin Calculator to find the weighted margin index for your whole collection. It calculates a single average percentage that shows the true profit health of all products combined, which is much better than just looking at total sales.

02 **What is the difference between gross revenue and contribution margin?**

Gross revenue is just how much money came in. The contribution margin is a much deeper metric; it tells you what's left after factoring out variable costs and taxes, giving you a truer picture of actual profit.

03 **Does the Contribution Margin Calculator help me set better prices?**

Yes. By running unit margin metrics with different cost inputs, you can simulate price changes before implementing them. This helps you ensure that your new pricing meets or exceeds your minimum profit goals.

04 **How do I check if my current product mix is healthy?**

The weighted margin tool gives you this answer. It takes into account how much revenue each product generates, so it doesn't just tell you the average margin—it tells you the *weighted* average margin based on your actual sales volume.

05 **What if some of my products are barely making money?**

The Contribution Margin Calculator will flag those items. Using the underperforming product tool, you can set a minimum profitability threshold and immediately get a list of every SKU that falls short, letting you know exactly where to focus your efforts.

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 `"contribution-margin-calculator": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → 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

Contribution Margin 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

INDEPENDENT PLATFORM DISCLAIMER

DOCUMENT INFORMATION

Generated	June 2026
MCP Server	Contribution Margin Calculator MCP
Server ID	`019f111c-37fe-716f-a561-949bae950485`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE