Cachengo® Bento

B3220-Series Set Top Box

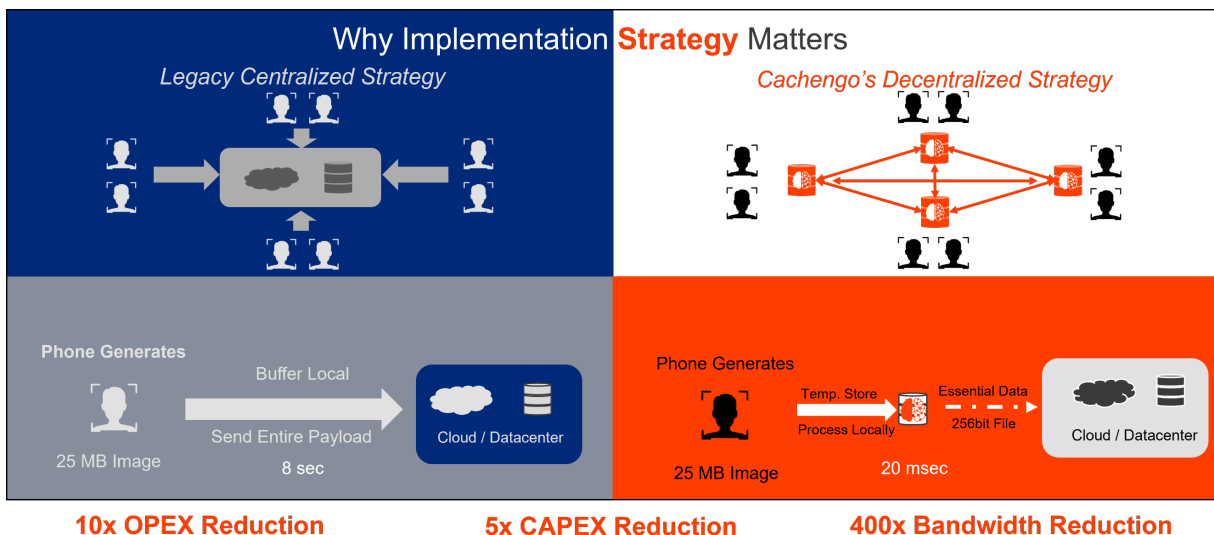**Energy-efficient compute & storage cluster**

Edge Analytics workloads

Edge Analytics requires the right combination of compute GPU/TPU, Flash storage and networking- the elements found in the Cachengo Bento Box. Purpose built for demanding edge analytics workloads.

Cachengo Edge Analytics Architecture

Most want to take advantage of data at the edge of the enterprise where businesses can make a difference but don't know how. Cachengo creates an environment for innovation at the edge by providing the right combination of security, scale, economics and performance. What makes Cachengo unique is the technology that supports these capabilities.

- **Security** comes from a Hive Connect peer to peer network that sits on top of Ethernet that makes it virtually impossible to hack or disintermediate.
- **Scale** comes from adding processing power with storage so that capability and capacity expand together. Scale doesn't need to take a lot of space, the Bento Box form factor packages 8 independent Symbiote drives in a compact unit.
- **Favorable economics** come from a simplified edge architecture to reduce CAPEX by 5x and OPEX by 4x compared with traditional Intel architectures by employing the Hive Connect management schema that scales from the edge to the cloud to the data center.
- **Performance** comes from not just CPUs added to storage, but also GPUs or TPUs to optimize analytics at the edge.

Cachengo Bento Product Brief

Features

- Low power ARM-based cluster in a box under 50W
- 64 ARM cores + 40 GPU+NPU cores
- 128GB RAM
- Up to 64TB of storage
- Central management Interface for resource, App deployment and orchestration
- Cloud native and multi-cloud support
- Support erasure coding and replication data protection
- Enhanced SD-WAN connectivity
- Just-In-Time Data "Thin-provisioning" data caching support
- Native ML/AI Capabilities

Form Factor	**Proprietary Micro Set-top Box**
Network Connections	10GbE SFP+
Dimensions	Height: 1.96" (50mm), Width: 4.88" (124mm), Depth: 7.87" (200mm)
Weight	2.4 lbs. (1.09 kg)
System Cooling	2x (40x40x10mm) heavy duty fans
Operating Environment	Target Temp Range: 32°F - 95°F (0°C - 35°C)
Power Consumption	75W maximum, < 50W typical
Power Supply	External AC/DC switching power adapter
Thermal Dissipation	255 BTU/hr maximum, 170 BTU/hr typical
Operating Requirements	12V / 6.5A, Connector Type: AC-DC Adapter [220V or 110V]

The Bento Box is available in capacities from 2TB to 72TB (raw) capacity to provide different amounts of Flash storage based on your needs.

Orderable PN	B3224110000	B3224120000	B3224131300	B3224151500	B3224151515
Storage (Raw)	2TB	4TB	16TB	64TB	72TB
ARM Cores	64	64	64	64	64
GPU+NPU Cores	40	40	40	40	40
Memory	128GB	128GB	128GB	128GB	128GB

For more information go to www.cachengo.com

Cachengo, Inc.