



APUSIC  
固若长城  
睿比世界

# Product Introduction

Kingdee Apusic In-Memory Data Cache V2.0.1

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# 1 Product Overview

Apusic In-Memory Data Cache (AMDC) is versatile, high-throughput, and securely manageable distributed caching software independently developed by Kingdee. It provides powerful data caching services and a comprehensive console integrating implementation and maintenance. The AMDC data caching engine is compatible with the Redis protocol, covering all of Redis's functionalities, thereby not only offering new options for enterprise data caching but also enabling a simple, swift, and seamless replacement of Redis, contributing significantly to the localization efforts.

## 2 Product Features

### 2.1 Data Caching Engine

Feature	Description
Multi-data Type Caching	Provides caching types including string, list, hash, set, sorted set, GEO, hyperloglog, stream.
Publish/Subscribe	Implements publish/subscribe functionality, enhancing system capabilities.
ACL Permissions Control	Offers a secure access mechanism with support for granular access control.
IP Whitelist	Supports IP and subnet whitelisting for enhanced security.
Memory Data Eviction Policies	Offers various data eviction strategies to meet diverse requirements and improve memory utilization.
Persistence	Enhances cache service availability, preventing data loss during downtime.
Lua Script Support	Supports using Lua scripts for cache service operations.
National Cryptography Support	Supports national cryptography for encrypted communication.
SSL Support	Supports SSL for encrypted communication.
Multiple Coroutines	Supports concurrent request processing with multiple coroutines, increasing system throughput.
Master-Slave Mode	Supports master-slave backup.
Sentinel Mode	Provides node monitoring, automatic failover, failure notification, and configuration propagation for master-slave mode.
Cluster Mode	Supports elastic scaling (memory expansion/contraction) and includes failover capabilities.
Two-Site Three-Datacenter Mode	Supports dual reading and writing at different locations, with real-time synchronization.

### 2.2 Console

Feature	Description
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Multi-Tenancy	Employs a multi-tenancy model for data isolation among different businesses or administrative groups.
Access Control	Provides feature usage permission control, enhancing the security of the console.
Multi-Cluster Management	Offers cluster management for multiple clusters, including node startup/shutdown, elastic scaling, and configuration.
Monitoring and Alerting	Provides cache monitoring features, detecting cache status and issuing alert notifications in case of cache service anomalies.
Data Analysis	Offers big keys, hot keys, slow log, and other data analysis functions for cache data.
Auto Deployment	Implements the auto-deployment function of the AMDC data caching engine, automatically completing the entire process for faster and simpler deployment.
Visual Scaling	Provides a visual interface for scaling operations, eliminating cumbersome command-line operations.
Task Center	Visualizes the deployment and scaling processes.

### 3 Product Advantages

Advantage Item	AMDC	TongRDS	BES CacheServer
Redis Compatibility	High	Moderate	High
Performance Edge	Outperforms Redis	Poor	On par with Redis
Auto Deployment	Provides auto-deployment functionality	Requires self-setup and maintenance	Requires self-setup and maintenance
Self-Developed	Independently developed software, mastering core code, safe and reliable	Based on U-RDS	Based on Redis
Deep Management	Provides an AMDC deep management console, more operations visualized, easy to get started	Similar to redisinsight	Similar to redisinsight
Data Security	Supports national cryptography encryption transmission, IP whitelist, multiple data security features including ACL	National cryptography (encryption of passwords only) and ACL	ACL
Two-Site Three-Datacenter	Supported	Not supported	Not supported
Multi-Tenancy	Supported	Not supported	Not supported

## 4 Application Scenarios

### 4.1 High-Performance Data Caching

Possessing exceptional data caching capabilities, it provides secure and dependable caching support for large-scale, high-concurrency, highly available critical applications, ensuring the normal and efficient operation of systems.

### 4.2 Distributed Lock

Provides locking operations for distributed systems to prevent issues of data errors caused by multiple nodes simultaneously operating on data.

### 4.3 Data Sharing

By caching common data across a distributed system, it achieves data synchronization and sharing among each node within the system.

### 4.4 Lightweight Message Queues

Capable of quickly implementing lightweight message queues through the Publish/Subscribe model, LIST data type, and STREAM data type.

## 5 Related Concepts

Term	Definition	Usage Instructions
Cluster	A computer service system composed of multiple independent computers	In this document, the master-slave, sentinel, and cluster modes can all be considered as clusters; the term 'cluster mode' specifically refers to the mode where data is sharded and stored across multiple master nodes.

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