



APUSIC  
固若长城  
睿比世界

# Feature List

Apusic In-Memory Data Cache V2.0.1

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Software Name	Primary Functional Module	Secondary Functional Module	Feature Description
Cache Core	Data Operation Commands	String	1. Supports data read/write operations
			2.Supports batch data read/write operations
			3.Supports append character operations
			4.Supports offset setting and querying
			5.Supports string bit calculation and bit operations
			6.Supports arithmetic operations on numeric values (including integers and floating-point numbers)
			7.Supports overwriting strings starting from a specified offset
			8.Supports storing key-value pairs while setting expiration time, supports batch operations
			9.Supports setting expiration time in milliseconds while storing key-value pairs, supports batch operations
			10.Supports storing key-value pair only if the key does not exist
		List	1.Supports head and tail insertion operations for List data type
			2.Supports reading elements within a specified offset
			3.Supports head or tail insertion when the key exists and data type is list
			4.Supports blocking pop operation on list head or tail
			5.Supports blocking pop and set operation (head or tail)

			6.Supports querying the value of an element at a specific index
			7. Supports inserting an element at a specific index
			8.Supports querying list length
			9.Supports overriding the value at a specified index
			10.Supports trimming a list to retain elements within a specified range
			11.Supports removing a number of elements equal to a specified value
		Hash	1.Supports read/write operations for hash type data
			2.Supports returning the value of a specified field in a hash table
			3.Supports setting a field value only if it does not exist in the key
			4.Supports deleting one or more specified fields
			5.Supports checking if a field exists in the key
			6.Supports returning all fields and values in a key
			7.Supports incremental calculations on a specified field (with integer or floating-point values)
			8.Supports querying the number of fields in a key
			9.Supports batch insertion or retrieval of fields
			10.Supports returning the values of all fields in a key simultaneously
			11.Supports querying the length of values in specified fields
		Set	1.Supports read/write operations for set type data

			2.Supports querying the number of elements in a set
			3.Supports calculating the difference, intersection, and union between two sets, supports storing the result in a new set
			4.Supports moving specified elements from the original set to the target set
			5.Supports returning and deleting one or more elements from a set
			6.Supports returning one or more elements from a set without deletion
			7.Removes one or more elements from a set
			8.Supports checking if a specified key element exists in a set
		SortedSet	1.Supports read/write operations for sorted set type data
			2.Supports returning members and member scores within a specified range in a sorted set
			3.Supports returning the cardinality of a sorted set
			4.Supports returning the number of members within a specified score range, supports storing these members in a new sorted set, supports ascending or descending order
			5.Supports incremental calculations on member scores
			6.Supports removing one or more members, or members within a specified rank range, or members within a specified score range
			7.Supports calculating the difference, intersection, and union between two sorted sets, supports storing the resulting set in a new sorted set

		Stream	1.Supports querying stream information, including messages, consumers, and consumer groups
			2.Supports adding new message entries to a stream
			3.Supports trimming messages, deleting messages
			4.Supports querying multiple messages within a specified ID range, supports ascending or descending return
			5.Supports returning the number of message entries in a stream
			6.Supports creating, deleting consumer groups, creating, deleting consumers
			7.Supports marking messages as being processed, allowing them to be deleted effectively
			8.Supports changing (or retrieving) ownership of messages in a consumer group as if the messages were delivered to a specified consumer
			9.Supports returning information and entries from the unacknowledged items list of a stream consumer group, i.e., messages that have been received but never acknowledged
		GEO	1.Supports read/write operations for geographical location data type
			2.Supports calculating the distance between two geographical locations
			3.Supports retrieving a set of geographical locations within a specified range based on given latitude and longitude coordinates, supports storing the set in a new collection
			4.Calculates the geohash value(s) of one or more geographical object(s)

		HyperLogLog	1.Supports read/write operations for cardinality type data
			2.Returns the estimated cardinality value for specified data
			3.Merges multiple datasets into one
	Other Operation Commands	Key Operation Commands	1.Supports deleting one or more KEYS, regardless of data type
			2.Supports manual persistence commands
			3.Supports setting and removing the lifecycle of a key
			4.Supports regular expression pattern matching for key queries
			5.Supports moving a key to another database
			6.Supports viewing the remaining lifetime of a key
			7.Supports returning a random key
			8.Supports sorting for lists, sets, and sorted sets
			9.Supports viewing the data type of a key
			10.Supports scanning keys in a database
			11.Supports querying commands available in the cache core
		Lua Operation Commands	1.Supports executing Lua scripts
			2.Supports caching Lua scripts, loading cached scripts, clearing cache
		Transaction Operation Commands	1.Supports executing transactions, canceling transactions
			2.Supports monitoring transactions and exiting monitoring

		Publish/Subscribe Commands	1.Supports subscribing to one or more channels, or specifying patterns (regex match) for one or more channels
			2.Supports pushing messages to a specified channel
			3.Supports unsubscribing from channels
		Connection Commands	1.Supports auth login connection
			2.Supports ping connection test
			3.Supports switching the database of a connection
		ACL Operation Commands	1.Supports configuring and deleting ACL users
			2.Supports querying information about ACL users
		Service Operation Commands	1.Supports fuzzy configuration query
			2.Supports modifying configuration items, and supports rewriting configuration files
			3. Supports querying the number of key-value pairs in a database
			4.Supports clearing all cache core data or clearing database data
	High Availability	Master-Slave Mode	1.Supports backup data on slave nodes
			2.Supports master write, slave read
		Sentinel Mode	1.Supports failover for master-slave mode
			2. Supports querying information about the master node
		Cluster Functionality	1.Supports data sharding storage
			2.Supports automatic failover

			3.Supports node elasticity scaling
		Two-Site Three-Datacenter	1.Dual reads and writes, data synchronization
			2.Supports backup center
			3.Supports disaster recovery
Console	Services	Service List	1.Supports multi-service, multi-mode management
			2.Supports importing instances into the list
		Service Management	1.Supports updating instance configurations
			2.Supports ACL visual operations
			3.Supports instance monitoring
			4.Supports command-line operations on instances
			5.Supports persisting instance data locally
			6.Supports instance data recovery
			7.Supports scaling instances
	Deployment Management	Machine Management	1.Supports adding, deleting machine information
	File Management	License Management	1.Supports uploading, deleting license files
		Installation Package Management	1.Supports uploading, deleting installation package files
	Auto Deployment	Auto Deployment	1.Supports single machine auto deployment
			2.Supports master-slave auto deployment
			3.Supports sentinel auto deployment
			4.Supports cluster auto deployment
	Monitoring	Service Monitoring	1.Supports node monitoring

		Data Analysis	1.Supports bigkeys, hotkeys, memkeys analysis
			2.Supports monitor command real-time monitoring
	Task Center	Deployment Tasks	1.Supports simultaneous deployment of multiple tasks
	Alerts	Alert Rule Management	1.Supports customizing alert rules
		Alert Channel Management	1.Supports customizing email channels
	User Management	User Management	1.Supports user addition, deletion, authorization, account activation through three-member management

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