



## RaimaDB 16.1 Datasheet

RaimaDB is a high-performance database management system that is optimized for operating systems commonly used within the embedded market. The database engine has been developed to fully utilize multi-core processors, run with minimal memory, and support both in-memory and on-disk storage. It provides a subset of the ANSI/ISO standard SQL that is suitable for running on a wide variety of computers and embedded operating systems which may have limited resources.

### Key Features

- Performance
- Automatic Locking
- Portability
- SQL/Core Compatibility
- Upgradability
- In-Memory Optimizations
- SQL/PL
- Dynamic DDL
- Comprehensive API
- REST-ful Interface
- Administrative GUI
- Geospatial Data
- Time Series
- Replication
- SSL support

### Core Package

**Performance** - Improved performance over previous version of the RaimaDB and competitor products.

**Automatic Locking:** Reduced need for developers to individually lock every table in a relationship. The RaimaDB now automatically locks any related and relevant tables with one lock by the user.

**Portability** - Database content is independent of the CPU architecture, allowing databases to be copied between platforms, or concurrently accessed by computers with different operating systems or CPU architectures.

**SQL/Core Compatibility** - The RaimaDB combines the Core and SQL database definition languages into a single DDL. The file format will support Core and SQL, as well as consolidating the catalog and database definition files. Primary and foreign key references will be a core level feature. Additional NULL support is a core level feature.

**Upgradability** - Database upgradability, with respect to database migration from prior RaimaDB versions, can be done through import/export functionality.

**Dynamic DDL** - This feature is important to meet customer feature demand for the ability to create and alter database and table definitions, which enhances the customer application upgrade scenarios.

**Comprehensive API** - RaimaDB 16.0 further enhances programmer efficiency by offering a comprehensive and modern cursor API for database command, control and navigational access.

**Secure Sockets Layer Support (SSL)** - Raima now supports SSL

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encryption for the communication layer. A newly configurable option allows for the developer to fully control which connections to the RaimaDB need SSL encryption with minimal performance impact.

### REST-ful Administrative GUI (Raima Control Center)

A newly supported SSL REST-ful admin GUI has been added to the database server functionality.

**CRUD:** (create, read, update and delete) operation to the database through simple database access buttons.

**Diagnostics:** RaimaDB engine status: memory usage, CPU usage, database size, table size, users connected, etc. are all viewable upon immediate connection.

**Administration:** Database status can be modified.

**Security:** Connect through SSL for full security support.

**SQL Query Support:** Full SQL query support has been added in a new query builder page.

### Enterprise Package

All of the core features in addition to:

**SQL** - SQL ISO 2012 standard support

**SQL PL** - SQL Persistent Procedural Language is a major ease-of-use enhancement in RDM. This feature follows the ISO standard for SQL scripted procedures and allows for programming constructs to be used purely through SQL.

**SQL Stored Procedures** - SQL Stored procedures allow for a precompiled batch of SQL statements to be executed together to perform a specific task.

**Python** - Custom Python API for full database connectivity and interaction.

**JDBC 4.2 Type 4** - JAVA connectivity API. Allows for database connection through JAVA.

**ODBC 3.9** - ODBC standard API for database connections.

**3rd Party Utility Support** - Allows for database reporting tools to be used to pull data from RaimaDB such as Tableau, Microsoft Access,

Microsoft Excel, etc.

**Replication support** - RaimaDBs high speed Raima to Raima replication API and utility.

## Database Specifications

- **Max. Databases Open Simultaneously:** No Limit
- **Maximum Rows Per Database:** No Limit
- **Maximum Size of Database File:** Limited only by file system
- **Maximum Tables Per Database:** No Limit
- **Maximum Records Per Table:** No Limit
- **Maximum Keys Per Database:** No Limit
- **Max. Row Size:** No Limit
- **Maximum Fields Per Table:** No Limit
- **Security:** AES Encryption with 128/192/256 bits
- **RAM Requirements:** Minimum 300K, User configurable

### Supported Platforms:

- Microsoft Windows
- Linux, Embedded Linux (ARM,
- Mac OS X
- Green Hills Integrity
- QNX
- Wind River VxWorks
- Wind River Linux
- Autosar
- Barebones

### Modes of Operation

- Single-thread
- Multi-thread

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