

Why Buy *eXtremeDB*?

“eXtremeDB’s ultra-small footprint fits our tight RAM and CPU constraints. The database also stands out for performance. Its streamlined design and in-memory deployment meet our system’s near-zero-latency demands.”
-- EFJohnson

eXtremeDB, the real-time embedded database for devices that are eXtremely innovative

Given the wide choice of available database management system software, why choose McObject’s *eXtremeDB* product family? Here are a few of the compelling reasons:

Shorter development cycle. Compared to self-developed (‘homegrown’) data management, *eXtremeDB* offers a proven solution that slashes months from development, QA and ongoing support.

Code quality enforced. A type-safe API and run-time verification mean data typing and usage errors are caught early. Result: higher quality code, shorter development cycles and dramatically fewer costly errors.

Fastest database system available. As an in-memory database system (IMDS), *eXtremeDB* eliminates I/O and other sources of latency. Your system gains speed without rewrites or expensive new hardware.

Multi-core efficient. With advanced memory management and a Multi-Version Concurrency Control (MVCC) transaction manager, *eXtremeDB* fully leverages multi-core, multi-threaded systems.

Highly scalable. The 64-bit edition of *eXtremeDB* scales to support the largest real-time data stores in financial, social network, object-caching and other high volume enterprise applications.

Reduced manufacturing costs. Small code size (under 100K) and minimal overhead (as little as 15%) means less RAM is required; *eXtremeDB*’s streamlined design permits a lower cost CPU. Component costs drop, giving your device a cost advantage.

Your competitive edge. Or, use the extra CPU speed to offer a snappier user experience than your competition, and use the extra memory to manage more data at the same cost as competing products.

Reliable. *eXtremeDB*’s ACID transactions safeguard data integrity, guaranteeing that updates will complete together or the database will roll back to a pre-transaction state.

Fault-tolerant. Committed to 99.999% uptime or better? *eXtremeDB* High Availability (HA) edition ensures continuous database operation even in the face of hardware or software failure.

Multiple database interfaces. Access the database using its fast native API or optional, standard SQL (*eXtremeSQL*). For Java developers, *eXtremeDB*’s Java Native Interface (JNI) provides the ease of working with plain old Java objects (POJOs).

Form factor flexible. The hybrid *eXtremeDB* Fusion enables use of either memory or persistent media for data storage, or both – choose the best component based on form factor.

Flexible persistence. Fine-tune data persistence with *eXtremeDB* Transaction Logging. Store all or part of your data on disk using *eXtremeDB* Fusion. *eXtremeDB* also supports non-volatile RAM (NV-RAM) for storage.

Rich development tools. A wide range of supported data and query types adds to developer efficiency. The *eXtremeDB* API is highly intuitive, for quick learning, and lends itself to readable and maintainable code.

Choice in database indexes. The right index boosts performance and minimizes footprint. *eXtremeDB* offers R-trees for geospatial data, Patricia tries for IP/telecom, KD-trees for multi-dimensional data and Query-by-Example (QBE), B-trees, hash indexes and more.

Source code available. Provides the ultimate transparency for developers using *eXtremeDB*. Use it for porting, learning, or to add a needed function.

Re-use your code. Leverage your development investment: as one of the most portable database systems, *eXtremeDB* deploys easily on new platforms, and even runs without an operating system in “bare bones boards” deployments.

Low ownership cost, high ROI.

eXtremeDB’s short learning curve, type-safe API, and enhanced code reusability and maintainability reduce its cost of ownership, while benefits such as lower component costs, scalability, a better end-user experience and superb reliability add value downstream from development. All these advantages combine for a higher return on investment in embedded database software for companies that choose McObject’s *eXtremeDB*.