

# Polyhedra In-Memory Database: Product Features

Feature	Polyhedra 64 IMDB	Polyhedra 32 IMDB	Polyhedra Lite	Polyhedra Flash DBMS
SQL relational database, supporting views; INSERT, UPDATE, DELETE; queries with joins; foreign keys	yes	yes	yes	yes
Dynamic table creation, alteration and deletion	yes	yes	yes	yes
Strict enforcement of entity (data types) and referential integrity	yes	yes	yes	yes
<ul style="list-style-type: none"> <li>64-bit, 32-bit, 16-bit and 8-bit signed integers</li> <li>64-bit and 32-bit floating point values</li> <li>bounded and unbounded character strings (+ UNICODE option)</li> <li>unbounded binary objects</li> <li>datetime</li> <li>Booleans</li> </ul>	yes	yes	yes	yes
Table inheritance; 'shared' and 'virtual' attributes	yes	yes	yes	yes
Ability to mark tables and columns as persistent or transient	yes	yes	yes	yes
Ordered and hash indexes	yes	yes	yes	yes
Client-server architecture, keeping data separate from the applications that use it (and thus safer)	yes	yes	yes	yes
Standards-conformant ODBC and JDBCclient libraries	yes	yes	yes	yes
Cross platform support	yes	yes	yes	yes
Interworking with older releases	yes	yes	yes	yes
Interworking with other Polyhedra products	yes	yes	no	yes
Address mode (which affects the platforms supported, and the size of database supported by Polyhedra IMDB)	64-bit	32-bit	32-bit	32-bit
Maximum database size	Determined by the memory available to a single process			2 GB
Platform-independent database files	yes	yes	yes	yes
Fully transactional, with ACID operation	yes	yes	yes	yes
Provision for snapshots, for offline storage and analysis	yes	yes	yes	yes
Mechanisms for data durability	Snapshots plus journal logging			Shadow paging
Support for High Availability configurations	yes	yes	no	yes
Support for read-only replica servers	yes	yes	no	no
Subscriptions: allow a database to have an active cache of data from another	yes	yes	no	no
Active queries, with clients automatically updated	yes	yes	yes	yes
Interface to PLCs, RTUs ('the DVI module')	yes	yes	no	no
Historian module, to store and retrieve time-series data	yes	yes	no	no
Where is the master copy of the data stored?	RAM	RAM	RAM	file
Configurable RAM cache	n/a	n/a	n/a	yes
Configurable limit on total file size	n/a	n/a	n/a	yes
Configurable limits on size of individual tables	no	no	no	yes
Configurable limits on total RAM usage	yes	yes	yes	yes
Configurable limit on space used on behalf of a client	yes	yes	yes	yes
Debugging module	yes	yes	no	yes