



Action Zen Edge Database

Zero-DBA, embeddable database for
Raspbian and Windows IoT Core

Key Benefits

- SQL and NoSQL
- Zero-DBA
- Data Portability Across Platforms and Versions
- Small Footprint
- Simple Upgrades
- Backward Compatibility

Supported Platforms

- Raspbian
- Windows IoT Core for Intel and ARM
- Android (*Coming Soon*)



FREE 90 day TRIAL
www.action.com/psql

What do I need for an easy evaluation?

Download the Zen Edge database, evaluation sample application, libraries, and SDK. BYO Raspberry Pi.

The Action Zen Embedded database family now includes a new edition, Zen Edge database, Action's first product focused squarely on the needs of the IoT developer. Running on Raspbian and Windows IoT Core, it extends the features of classic Zen Embedded editions to these worldwide platforms.

Zen Edge database is a SQL/NoSQL, zero-DBA, embeddable, small footprint database suited to the needs of ISV and OEM providers of IoT solutions. With both relational and direct data access, self-tuning, exceptional reliability, data portability, easy upgrades, and backward compatibility, IoT solution developers can deliver applications at scale across a wide range of platforms. Without having to manage collaboration among teams working in different environments with different data formats. Without later getting buried by support costs. With more time and energy left to innovating.

SQL and NoSQL

Action Zen Edge database includes SQL access for reporting and NoSQL access for performance, providing the perfect combination of speed and flexibility. Developers can choose among several methods of direct access to data without going through a relational layer. This enables fast read and quick insert, update and delete performance. Action Zen Edge database supports SQL access via ODBC and NoSQL access via the Btrieve and Btrieve 2 APIs.

Zero Database Administration

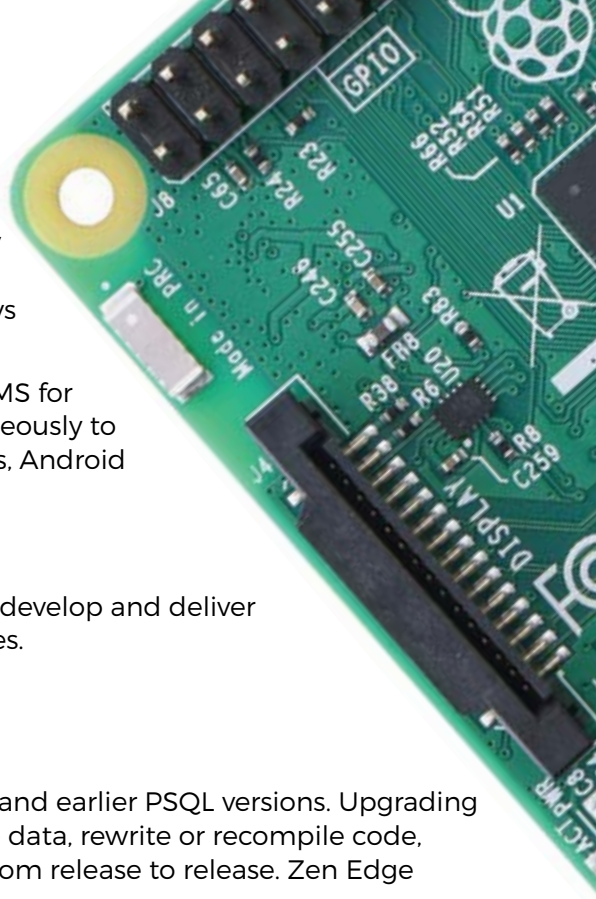
Set it and forget it. Edge computing in the world of industrial IoT means no DBA. As with all Action Zen Embedded products, Zen Edge database is built for environments with low and no IT. We don't require consultants and don't need DBA supervision. Zen Edge database just runs, and runs, and runs.

Data Portability

Zen Edge database supports the same data types and file formats as the rest of the Action Zen product line, so accessing and moving data between an ARM device like Raspberry Pi and Windows or Linux servers requires none of the typical ETL overhead. Plus, data compatibility extends across all of the supported platforms and multiple versions of Action Zen database products. Seamless portability greatly simplifies development, deployment and maintenance. No ETL work or other overhead, just copy files and go.

How much time does it take to try Zen Edge database?

The Quickstart Guide will walk you through how to install the product and sample data in minutes and the queries are very simple - just a few seconds to run. You'll have results in your hand in the time you normally take for a coffee break - minutes.



Action Zen Edge Database

Optimised for Smart Devices

The Action Zen Edge database is revolutionary, optimised for locally persisted and distributed data, an essential element of applications developed for today's smart devices at the edge, intelligent gateways and edge-cloud environments.

It's the world's first zero-dba, nano-footprint, multi-architecture DBMS for applications at the network's edge. Code once and deploy simultaneously to ARM and Intel-powered systems, running Linux, Raspbian, Windows, Android and iOS environments.

Developers - Accelerate your IoT Development today.

Install Action Zen and gain a higher sense of enlightenment as you develop and deliver applications to customers at massive scale for a diverse set of devices.

Your opportunity now has no limits.

Backward Compatibility

Backward compatibility has long been a top priority for Action Zen and earlier PSQL versions. Upgrading to the latest release is designed to be easy, with no need to migrate data, rewrite or recompile code, or even reinstall existing applications. Just keep moving smoothly from release to release. Zen Edge database offers the same low-stress maintenance.

New Btrieve C and C++ API

C and C++ application developers can take advantage of the new version of the Zen embedded database Btrieve 2 API, with all of the same access calls as the original but in a simplified, more intuitive client library. Access the performance and flexibility of the Btrieve engine without the complexity. The Btrieve 2 API SDK also includes SWIG (Simplified Wrapper and Interface Generator) files for Perl, PHP and Python, giving developers in those languages Btrieve data access with a quicker learning curve.

A World of Use Cases

Zen Edge database is ready to manage data in the real world solutions currently being fielded in millions of Intel and ARM processors. IoT is redefining many industries. Rather than collect and centralise data to decide whether to trigger action at remote locations, now it is increasingly stored where it is gathered and analysed on the spot to take action.

HEALTH CARE

A Raspberry Pi with in a hospital room can control a video camera and combine patient movement images with health monitor data, both stored on Zen Edge database, for an application determining whether to call for medical assistance.

IT

Data center monitoring software can use Zen Edge database to store and combine infrared images, temperature readings, CPU load, and other system information needed to automatically adjust cooling, reallocate resources, even shut down selected processors, then verify the results.

AGRICULTURE

Farm systems can use applications running on Zen Edge database to apply soil, crop, and weather data to reduce water costs by irrigating only where and when needed.

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