There's more data on the edge than ever
Unlock intelligence with Azure SQL Database Edge

A data and analytics engine specifically designed for edge workloads

By 2025, **75%** of enterprise-generated data will be created and processed outside the data center or cloud - up from less than 20% today

**But there are challenges for data engines running on edge**

- Platform constraints and fewer database choices
- Limitations on size and processing power
- Increased latency with complexity on AI
- Security risks and compliance concerns
- Complex data management and steep learning curve
- Increased latency with complexity on AI
- Security risks and compliance concerns

**Azure SQL Database Edge resolves the important challenges of edge computing**

**Bringing the performant and secure Microsoft SQL engine to the edge**

Preserving consistency for application development and security control

**Primary uses cases for Azure SQL Database Edge**

**Native data movement**
Optimize network bandwidth for native data sync with cloud/enterprise portal
Stream IoT data from edge with a high performant engine

**Ease of management**
Process time-series data directly in the Azure SQL Database Edge engine
Use SQL Server in database machine learning for predictions and actions real time on Edge

**Complete analytics platform**
Single management plane for deployment, updates, re-initialization
Consistent security management across edge/enterprise; flexible HA/DR built-in

**Time-series, relational, and graph together**
Store and analyze over relational, time-series or graph data
Unlock greater insights by combining graph and time-series data

Get the most from your edge workloads.
Join the early adopter program:


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**Footnotes**

2. National Institute of Standards and Technology Comprehensive Vulnerability Database

**Graphs**

- Arm64 x64
- Time-series built-in
- AI built-in
- Turn-key management
- Unparalleled performance & security

- Edge MCU
- Interactive Devices
- Edge Gateways
- Data Center
- Cloud

- Azure SQL Database
  - SQL Server
  - SQL Database Edge

- Gateway/Edge server
- Interactive devices
- Data Streaming
- Edge gateways
- Time-series analytics

- SQL Server Machine Learning & Time-series analytics

- Management plane (Azure IoT)
- Runtime, messages

- Sync

- Azure SQL Database Edge
  - A small-footprint, turn-key, MC-capable data engine running connected or offline for edge computing

- Single management plane for deployment, updates, re-initialization
- Consistent security management across edge/enterprise; flexible HA/DR built-in

- Most secure with industry leading performance benchmarks

- Arm64 x64
- Time-series built-in
- AI built-in
- Turn-key management
- Unparalleled performance & security

- MySQL
- Oracle
- SQL Server
- IBM DB2
- PostgreSQL
- SAP HANA

- Light weight SQL Server engine <500 MB tuned to run on ARM and Intel devices

- Industry leading data engine with full AI/ML capability for mission-critical workloads