



Edge Xpert 1.6 Product Specification

Edge Xpert is a production-quality and enhanced version of the latest stable release of the Linux Foundation's open-source EdgeX Foundry platform, providing a commercially-supported solution for Industrial IoT edge applications.

The Edge Xpert approach minimizes any risk of open source adoption and is key to users deploying in mission- and business-critical systems. In addition, Edge Xpert provides numerous value add features to provide a complete Edge IoT platform that enables users to accelerate their Edge IoT system development and bring their solutions to market more quickly.

The standard distribution of Edge Xpert provides the following services and features:

Core Services:

- Core Data (storage enhanced with Redis)
- Command
- Metadata
- Registry and Configuration (implemented with Consul)

Device Services:

- ModBus (RTU and TCP)
- BACnet (MSTP and IP) *
- OPC UA *
- MQTT
- Bluetooth Low Energy (BLE)*
- Zigbee *
- CAN Bus *
- EtherCAT *
- PROFINET * †
- Grove Sensor *
- File *
- GPS *
- MEMS *
- Virtual
- SDKs in C and Go to create new Device Services

* Edge XRT enabled to support low-latency local filtering, decision-making and pluggable control algorithms within the Device Service. For more information about Edge XRT, contact us at info@iotechsys.com

† Third-party license fees may apply.

Supporting Services:

- Rules Engine / Edge Analytics (Node-RED)
- Scheduling
- Alerts and Notifications
- Logging
- MQTT Broker (Mosquitto)
- Time Series Database (InfluxDB)
- Dashboarding (Grafana)

Export Services:

- REST/HTTP
- MQTT
- Specific Exports to the following Cloud platforms:
 - AWS
 - Google Cloud IoT Core
 - Microsoft Azure IoT Hub
- Application SDK to create new Exports

Security:

- Secret Store (using Vault)
- Reverse Proxy (using Kong) x86 64 bit only

Tooling and Management Services:

- Edge Xpert Deployment CLI
- Edge Xpert Management UI
- Container Management (using Portainer)

Supported Processor Architectures:

- x86 (64 bit)
- Arm (32 and 64 bit)

For more information, please email info@iotechsys.com, or visit our website www.iotechsys.com