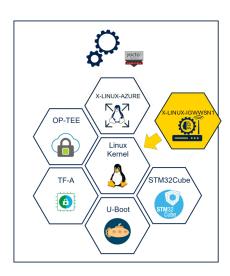




Industrial WSN edge gateway Expansion Package for STM32 MPU OpenSTLinux



Product summary		
Industrial WSN edge gateway software expansion package	X-LINUX- IGWWSN1	
STM32 MPU OpenSTLinux Distribution	OSTL/Open ST Linux	
Azure® IoT Edge Expansion Package for STM32 MPU OpenSTLinux	X-LINUX-AZURE	
Industrial-grade microprocessors	STM32 Arm Cortex MPUs	
Evaluation board with STM32MP257F MPU	STM32MP257F- EV1	
Industrial sensor evaluation kit for condition monitoring based on the 2.4 GHz STM32WB5MMG module	STEVAL- PROTEUS1	
Applications	Factory automation Condition Monitoring and Predictive Maintenance	

Features

- Software package for edge gateway solution connecting sensor or actuator nodes to Microsoft Azure IoT
- Industrial IoT Edge Gateway application on OpenSTLinux for STM32MP257F-EV1 and X-LINUX-AZURE
- The WSN (wireless sensor network) nodes are made of 2 or more STEVAL-PROTEUS1 evaluation kit
- Docker container technology in the STM32MPU
- Easy portability across different microprocessor unit (MPU) families and Linux platforms with OSTL/Open ST Linux and Microsoft Azure® IoT Edge available

Description

X-LINUX-IGWWSN1 is an industrial edge gateway software package for wireless sensor networks (WSN). It allows you to connect sensor nodes, such as the STEVAL-PROTEUS1 kit, transmit preprocessed data to Microsoft Azure[®] IoT Central cloud and receive commands.

It fully supports Azure® device management primitives and includes a complete Industrial IoT Edge Gateway to route data from a ZigBee Mesh Network to the Cloud preprocessing real-time data and taking decision on-premise.

This software can be used to accelerate the development of sensor-to-cloud applications for a broad range of industrial use cases.

The software is developed for the STM32MP257F-EV1 board with OpenSTLinux (OSTL) and is compatible with the STEVAL-PROTEUS1 evaluation board used as wireless sensor node.

The X-LINUX-AZURE expansion package is mandatory to support the Microsoft Azure® IoT Edge framework.

Cloud Connectivity

Sensing



Revision history

Table 1. Document revision history

Date	Revision	Changes
09-Dec-2024	1	Initial release.

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