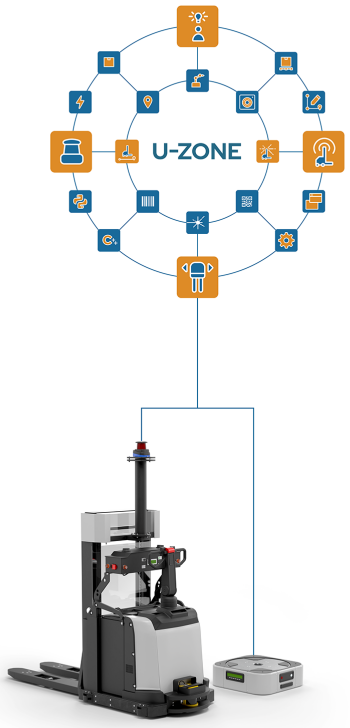
KOLLMORGEN
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U-Zone

A flexible solution to run customized applications in the vehicle controller

U-Zone enables the vehicle controller to run customized applications executed in parallel with NDC8. With the U-Zone Software Development Kit (SDK), you can develop U-Zone applications in C/C++, and upload them to the vehicle controller via the vehicle controller web interface.

Features



Develop and run customized applications in the vehicle controller, for example:

- Interfaces to communicate with external devices
- Diagnostic applications
- Improved load handling applications

U-Zone SDK

- Application development in C/C++
- Unit tests for applications
- Example projects for using VS Code to develop, build, test, and debug U-Zone applications
- External localization API that allows the U-Zone application to provide localization data to the vehicle controller software
- Example project for implementing support for dynamic docking

New web interface with U-Zone support

- U-Zone interface to upload and monitor U-Zone applications
- Resource Monitor showing CPU power and memory usage of U-Zone applications

Vehicle controller software with U-Zone support

- U-Zone applications running in the vehicle controller
- Support for reading and writing NDC8 parameters
- Support for receiving notifications about the changes of NDC8 parameter values
- Debugging tool
- SSH access as U-Zone user

Order information	
Support for U-Zone	N8 42120-75
U-Zone SDK	46177
API	
External localization	N8 42120-84

Requirements	
CVC700 HW	18456-01
CVC700 SW	46164

Technical information	
Memory/CPU (available in CVC700)	128 MB RAM One CPU core (i.MX6 800 MHz)
Requirements on development platform	AMD64 or Intel x64 - A Linux system running on this hardware identifies this as an x86_64 platform. A Linux environment, for example Ubuntu or WSL (Windows Subsystem for Linux) with zip installed.
Knowledge requirements	Linux , CMake, C/C++

Security

By default, the vehicle controller software uses a secure connection. For information about connection types, see the product description of your vehicle controller software. If the connection type or application changes, the vehicle controller software can become less secure.

A poorly designed U-Zone application can introduce IT security risks.

The responsibility for the security of the U-Zone applications lies solely with the U-Zone developer.

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