

MotoPlus SDK



Software for the development of customised extension modules for MOTOMAN controller

The MotoPlus SDK is a software package for developing extension modules (MotoPlus high-level language apps) for MOTOMAN controllers. User-defined modules extend the functionality of MOTOMAN robot controllers with functions that are not available with the standard Inform/Ladder command set.

Corresponding modules enable, for example, communication protocols to other devices, complex mathematical calculations, etc. The extension modules are created on the PC in a development environment (e.g. VisualStudio, programming language C and C++) and integrated in compiled form. By passing them on in compiled form, it is possible to encapsulate the functionality and thus protect intellectual property. The control resources (such as variables, IO signals, files, etc.) are accessed via a powerful API. In addition, a wide range of libraries from VxWorks, C Standard, Open Source etc. are available.

The SDK can be seamlessly integrated into the Visual Studio IDE* via a plug-in. This means that the MotoPlus modules on the controller can be managed directly in the development environment. Of course, standard features such as IntelliSense are also available. Alternatively, the separate MotoPlus IDE can be used.

* IDE – Integrated Development Environment

An integrated development environment is a software application that provides computer programmers with comprehensive software development capabilities. An IDE typically includes a source code editor, a compiler or interpreter, build automation tools, and debugging capabilities, all integrated into a single graphical user interface (GUI).



Download the software from the Yaskawa Software Download Portal.

Supported controller generations:

YRC1000 micro

YRC1000

DX200

AVAILABLE APIS (PARTLY OPTIONAL):

- Task Control API
- Network API
- Serial Communication API
- System Monitor/Control API
- Motion Monitor/Control API
- Sensor API (optional upon request)
- File API (optional on request)

Robot controllers on which the custom applications are to run require MotoPlus Runtime as a runtime environment.

MINIMUM SYSTEM REQUIREMENTS PC **

- Windows XP/7/10/11
- 2 GHz processor
- 2 GB of RAM
- 256 MB graphics card
- 10 GB hard disc space

** System requirements subject to change.

LICENCE

The MotoPlus SDK can be downloaded from the Yaskawa Software Download Portal and tested free of charge for 14 days.

At the end of the trial period, a licence must be purchased and the licence key is sent by post on a dongle.

The licence is valid for all controllers and also includes free updates, which are made available via the Yaskawa Software Download Portal.