

Complete spectrum of control solutions

Baumüller supports centralized, modular decentralized and hybrid control architectures, depending on the application. Baumüller provides solutions for each of the three topologies with the b maXX-drivePLC, b maXX-controllerPLC, b maXX-safePLC, b maXX PCE and b maXX PCC.

The b maXX controllers consistently implement the concept of scalability and modularity for flexible and individualized adaptation to the requirements of the mechanical engineer. The b maXX control platforms are fully integrated into the ProMaster Engineering Framework and are even suitable for highly synchronized drives thanks to their real-time capability.

With our b maXX-drivePLC, b maXX-controllerPLC controllers and the new b maXX-safePLC controller, we provide comprehensive solutions for every automation technology task. The b maXX PCE and the new b maXX PCC devices round out our product spectrum.



A scalable PLC platform that is suitable for centralized, decentralized and even hybrid control architectures

A modular control system for PLC and motion control tasks

Up to five additional modules can be connected, e.g., communication modules such as EtherCAT master/slave, CANopen master/slave, Ethernet interfaces, etc.

Supports the direct connection of I/O modules, e.g., digital input and output modules, analog input and output modules, thermistors such as the PT100, counter modules, power supply terminals, etc.

IEC 61131-3 programming with PROPROGRAM III

Compact dimensions save space in the control cabinet and/or terminal box (the required terminal box depth is just 100 mm)

Fully integrated into the ProMaster Engineering Framework

High real-time performance through highly synchronized real-time tasks with cycle times up to 250 µs



reddot design award
winner 2008

Standard

b maXX-controller PLC

BMC-M-PLC-01

32-bit Risc CPU 120 MHz
6 MB flash memory, 1 MB of which is reserved for the IEC-61131 runtime system, 1 MB for the IEC program and 4 MB for cams

High Performance

b maXX-controllerPLC

BMW-M-PLC-02

32-Bit Risc-CPU 667 MHz
64 MB flash memory, - 16 MB of which is reserved for the IEC-61131 runtime system, 16 MB for the IEC program and 32 MB for cams
128 MB DDR-SDRAM PC 266 (optional 256 MB)

8 MB SDRAM
56 KB non-volatile RAM

100 KB non-volatile RAM

IEC 6113 features

2 MB IEC program memory for executable program code containing up to 400,000 STL characters, typically 120,000 STL lines
2 MB IEC variable storage memory (optional up to 9 MB)
56 KB NOVRAM for remanent IEC retain data
4 MB FDisk memory for the storage of cams and configuration data
Cycle time approx. 100 μ s per 1,000 lines of statement list (STL)
Motion control support
Approx. 1.4 MB for debug and logic analyzer functions

IEC 61131 features

16 MB IEC program memory for executable program code containing up to 2,000,000 STL characters, typically 600,000 STL lines
2 MB IEC variables memory (optional up to 9 MB)
100 KB NOVRAM for remanent IEC retain data
32 MB FDisk memory for the storage of cams and configuration data
Cycle time approx. 25 μ s per 1,000 lines of statement list (STL)
Motion control support
Approx. 9 MB for debug and logic analyzer functions