

C3 powerPLmC
www.parker.com/em/c3



C3 powerPLmC integrated, into servo drive



C3 powerPLmC stand alone, without servo drive

The C3 powerPLmC is a powerful machine automation platform that tightly integrates PLC and motion control functionality into one platform.

The C3 powerPLmC uses the internationally recognized IEC61131-3 programming interface to provide powerful I/O logic control as well as PLC open-based multi-axis motion control functionality. The standard Ethernet interface included with the package, combined with the available OPC server, provides effortless connectivity to higher-level systems as well as Windows-based HMI software packages and supervisory systems.

The C3 powerPLmC gives you a complete machine control solution for today's demanding industrial applications in both standalone and drive-integrated versions.

Motion

- Multi-axis motion based on PLCopen specifications
- CANopen with Sync telegram interface to control servo axes
- HEDA real-time bus for inter-axis coupling
- 32+ axes of centralized motion control

Interface Features

- 10/100 Mbps twisted Ethernet
- CANopen for up to 127 nodes of motion or I/O
- HEDA option
- Profibus DP slave option
- Parker InteractX™ compatible via Ethernet
- OPC Server
- Web Server
- Pier-to-pier data exchange

Control Features

- IEC61131-3 programming with CoDeSys interface
- Supported languages: LD, ST, IL, FBD, SFC, CFC
- Processing time of 100µs for 1000 lines of code (IL)
- 1ms minimum cycle time
- Real-time multi-tasking
- Debugging, single step, watch function
- Simulation, online trace
- Online program changes
- Real-time clock
- Watchdog timer
- 64 MB program memory on stand-alone version
- 4 MB program memory on drive-integrated version

I/O

- PIO via CANopen master interface for digital and analog distributed I/O (controls other CANopen devices)
- Onboard I/O of Compax3 servo drives

