

# Adept ePLC Connect

*"Is Learning Another New Programming Language Holding You Back from Realizing the Benefits of using Robots to Reduce Costs and Increase Efficiency?"*

You May **Already** Know How To Program It!

## PLC Client Specifications

### Safety

- Dual-Channel E-Stop connectivity
- Meets CE Category-1 safety requirements
- Front Panel (included) has E-Stop switch Communications
- Ethernet/IP

## Key Software Features

- Provides full IEC61131-3 compliant interface
- Common PanelView interface
- Multiple robots per PLC
- Compatible any Adept robot
- Automatic Startup
- Full access to motion control parameters
- Cartesian or joint angle coordinates
- Straight line moves
- Automate Pallet Function supported
- Teach 3 points to create a pallet
- Specify number of rows and columns
- Optional handheld pendant from Adept
- Allows jogging/teaching while inside workcell
- Display customized messages from PLC on pendant
- Receive notification of pendant button presses in PLC
- Programmable speed and acceleration
- Program directly using PLC's native language: Initialization, Programming, Jog Control, Tool I/O Control, Status Functions.

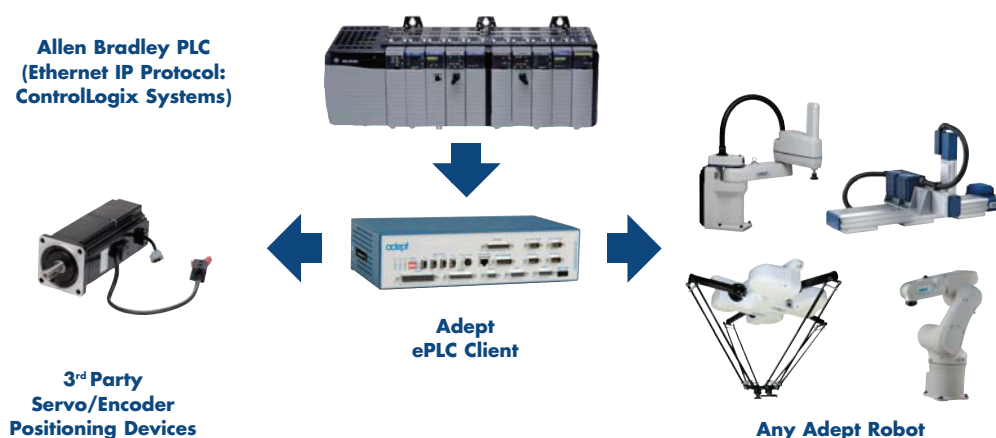
## Electrical Specifications

24VDC (± 10%), 5A (customer supplied)

## Environmental Specifications

Operating Temperature 5 - 40 °C  
Relative Humidity 5 - 90 %  
(non condensing)

The ePLC Connect Server software provides seamless connectivity with the customer supplier Ethernet/IP PLC. The ePLC Connect Server is pre-configured and ready for operation.



## Easy to install, program and operate!

All application programs and locations are defined and reside within the user's PLC. The PLC client retrieves this data and commands the robot to move. It's as simple as that. Customers new to robotics can now easily install, program, operate and support high-performance robots.

## Target Applications

- Pick-and-Place
  - Multiple pick-and-place locations supported
  - Flexible drop-off or reject locations
- Part Transfer
- Screwdriving

## Low purchase price and low support costs!

The familiar environment of the PLC, combined with its attractive price, makes this one of the most cost-effective robots in the industry.

## Support for the following PLC models

Allen Bradley SLC, MicroLogix, and ControlLogix product lines.

## It's as simple as 1, 2, 3!

### 1. Specify motion parameters

Integer Register (for robot position)			
1 Motion Speed	2 Accel Rate	3 Location Number	4 Motion Qualifiers

### 2. Command the robot to move

Command Bits			
Value 0 Power OFF	1 Reset	3 Home	4 Stop
Value 1 Power ON			5 Move

### 3. Check status

Status Bits					
Value 0 Power OFF	1 No Fault	2 Uncalibrate	3 Not Ready	4 No E-Stop	5 Complete
Value 1 Power ON		Calibrated	Ready	E-Stop	Moving
					Inposition

Not all functions are shown. Actual programming may vary. Contact Adept Applications Support for details.

