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Find the *OMRON / Adept Technology SmartController EX* at our website: *Click HERE*

Adept SmartController EX



The Adept SmartController® EX is an ultra-compact, high-performance, distributed robot motion controller capable of controlling an entire production line including up to 15 robots and third-party peripherals. The controller's distributed architecture, embedded software, integrated belt tracking, and high-speed communications allows users to integrate their automation systems with the user-friendly interface of the ACE PC-based software. Designed for use with Adept Cobra s-series SCARA robots, Viper six-axis robots, Quattro parallel robots and Python Linear Modules, the controller features Gigabit Ethernet, a high-speed processor and new software, called Adept eV+. Integration with the Adept SmartVision delivers seamless control of your vision systems, belts and robots. The Adept SmartController EX is smart control delivered.

Product Features and Benefits

- ePLC Connect Option Enables User to control robots from Allen Bradley's MicroLogix and ControlLogix and from Siemens' Simatic Product Lines
- Controls up to 15 Robots with a Single Controller
- Ultra-compact Form Factor for High Footprint Efficiency
- Built on IEEE-1394 Distributed Control Architecture for Plug-in Scalability
- Integration with Adept ACE to Control Complex Mechanisms Through User-Friendly Interface
- eV+ embedded real-time operating system to deliver high performance
- Optional T20 Pendant provides a teaching interface in an ergonomic and rugged package

Specifications

Dimensions (mm)	329 x 187 x 86
Weight	2.6 kg
Power Requirements	
24 VDC (± 10%), 120 W (5 A)	
Environmental Requirements	
Ambient Temperature	5 - 40 °C
Humidity Range	5 - 90 % (non-condensing)
Mounting Options	
Panel mount (kit included)	
Rack mount	
Stack mount	
Desktop	
Memory	
2GB SD Card	
128MB DDRAM	
Conveyor Belt Tracking Support (4 encoder inputs) (requires V+ extensions)	
Digital I/O	
Inputs	12 optically isolated (fast input)
Outputs	8 optically isolated
Communication Interfaces	
RS-232 serial port (115kbps)	
RS-422/485 serial port	
Gigabit Ethernet	
DeviceNet	
SmartServo interface (3x)	
Software	
eV+ real-time multi-tasking operating system and programming language	
Adept ACE™	
TCP/IP Interface	
Adept Robot Support	
Adept Cobra™ s-series robots	
Adept Viper™ robots	
Adept Quattro™ robots	
Adept Python™ linear modules	
CE and UL Compliant	

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ADEPT SMARTCONTROLLER EX

Dimensions: Adept SmartController EX (mm)



Dimensions: Front Panel (mm)



Optional T20 Manual Control Pendant:



The Adept T20 manual control pendant provides an ergonomic and durable package with which users can manually teach the robot system. All gripping and holding positions enable comfortable and fatigue-free operation. Select features include

- Enable /disable power
- Jog the robot in different modes (joint, world, tool, frame)
- Teach locations
- Display robot position, digital I/O, and system status
- E-Stop button and 3-position enable switch
- Colorful and high resolution User Interface
- Display IP address of controller

Options:

- Adept SmartVision EX machine vision processor (optimized to run Adept ACE)
- AdeptSight™ vision guidance and inspection software
- ACE PackXpert™ application software
- Conveyor-tracking option
- T20 manual control pendant
- sMI6 SmartMotion interface for additional encoder belt inputs
- sDIO I/O expansion (32 digital input and 32 digital output channels)

Downloads:

Download CAD files for the Front Panel from http://www.adept.com/support/downloads/file-search

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Specifications subject to change without notice.

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