



## EDCi22

The EDCi22 from DOLI is a powerful and cost-effective controller designed for static testing applications. It supports screw-driven systems with a 2.5 kHz control loop and includes a  $\pm 10$  V drive output.

Three iSI extension slots are available for additional interface boards, supporting a wide range of sensors, actuators, and input/output channels.

The unit features a compact desktop housing with optional display and keyboard integration, internal 160 W or 320 W DC drive amplifiers, and a 24 VDC supply for external devices. Integrated Ethernet communication allows for efficient system integration and control. Remote operation via DOLI RMCi enhances accessibility and test system flexibility.

Technical Specification / Data		
Dimension [mm]		360 x 255 x 105
Weight [g]		3900
Supply Voltage [V]	IEC C13 connector	100 - 240
Internal power supply for external devices (24 VDC, 2A)		✓
Internal DC power amplifier <sup>1</sup> 160W/320W		
Performance		
System and Data Acquisition Rate [kHz]		2,5
Test frequency [Hz]		5
Environmental Conditions		
Electromagnetic Compatibility (EMC)		IEC 61326-1:2012
RoHS Compliance		EN 50581
Communication Interfaces		
Universal digital I/O <sup>24V / 100mA</sup>	25-pin D-Sub Plug (female)	8 inputs   8 outputs
USB 2.0 full speed for PC Communication	USB Type B Plug	✓
USB host for USB sticks		✓
LAN 10/100 MBit	Ethernet Plug	✓
RS232/RS485 sensor interface <sup>1</sup> max 115,2 kBaud	9-pin D-Sub Plug (female)	
Measurement Inputs / Interfaces		
Incremental / SSI input Transducer ID via I2C + detection	TTL (A/B/Ref, 8MHz, 5V) SSI (24V, 300MHz)	9-pin D-Sub Plug (female) ✓
Load Channel <sup>Sensor detection + calibration via I2C, 10V with 24-bit resolution</sup>		15-pin D-Sub Plug (male) ✓
Drive interface <sup>adjustable 31.25kHz to 4MHz, Output ± 10V with 15-bit resolution</sup>		44-pin D-Sub Plug (female) ✓
External DriveBox <sup>1</sup>		
iSI extension Slots <sup>for additional interface boards iSI modules</sup>		3x
10V command output, current command output <sup>1</sup> <sup>for internal servo valve of DC power amplifier</sup>	5-pin round DIN plug	
Software		
Doli Installation Center		
DoliDoPE, Communication library for programmers		
Processor		
CPU VortexDX86, 800MHz		
<sup>1</sup> optional feature for this device		

[www.doli.de](http://www.doli.de)

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