



## EDCi20

The EDCi20 from DOLI is a powerful and cost-effective controller tailored 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 is housed in a robust cabinet and offers Ethernet communication, which enables seamless integration into networked test environments with centralized control or automation. Remote access via DOLI RMCi provides additional flexibility in operation and monitoring.

Technical Specification / Data			
Dimension [mm]			200 x 190 x 67
Weight [g]			1400
Supply Voltage [V]	24V Power Plug (female)		24
Typ. Power Consumption [W]			30
Peak Current [A]			1,25
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 <small>24V / 100mA</small>	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> <small>max 115,2 kBaud</small>	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 <small>Sensor detection + calibration via I2C, 10V with 24-bit resolution</small>		15-pin D-Sub Plug (male)	✓
Drive interface <small>adjustable 31.25kHz to 4MHz, Output ± 10V with 15-bit resolution</small>		44-pin D-Sub Plug (female)	✓
External DriveBox <sup>1</sup>			
iSI extension slots <small>for additional boards iSI modules</small>			3x
10V command output, current command output <sup>1</sup> <small>for internal servo valve of DC power amplifier</small>		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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Document Ref. DB-EDCi20-V1.0-Rev0-20250829 | Aug 2025

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