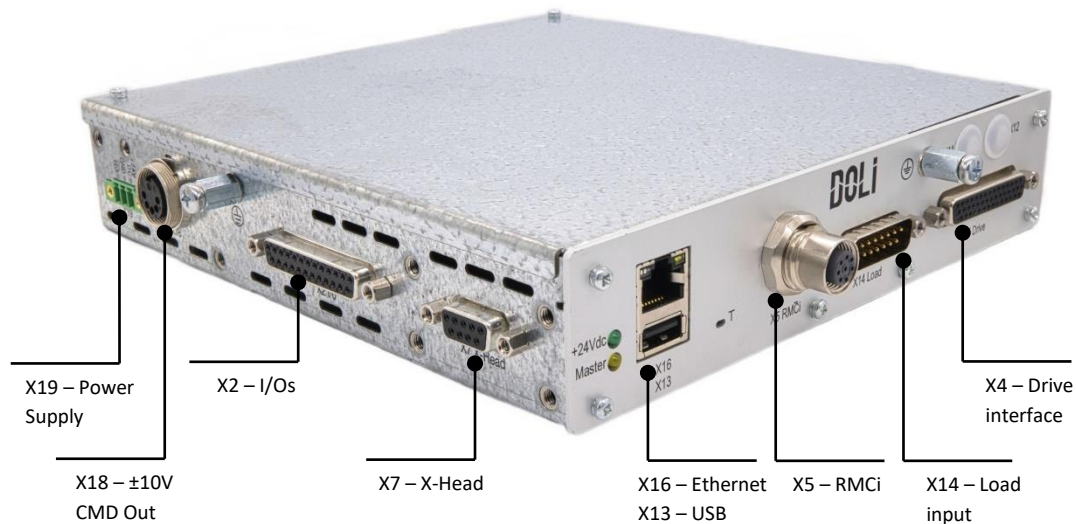


Universal Testing Controller



EDCi10

The EDCi10 from DOLI is a powerful and cost-effective controller designed for basic static testing applications. It provides stable and precise control of position or force with a 1 kHz control loop and includes a ± 10 V drive output for external amplifier connection.

The unit is housed in a robust cabinet and features Ethernet communication, enabling easy integration into existing laboratory or industrial test environment and facilitating data exchange and synchronization. Remote operation via DOLI RMCi is supported.

Technical Specification / Data			
Dimension [mm]		200 x 190 x 42	
Weight [g]		1300	
Supply Voltage [V]		24V Power Plug (female)	24
Typ. Power Consumption [W]		30	
Typ. Current [A]		1,25	
Performance			
System and Data Acquisition Rate [kHz]		1	
Test frequency [Hz]		2	
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 host for USB sticks		✓	
LAN 10/100 MBit		Ethernet Plug	✓
Synchronization of multiple EDCi ¹			
Measurement Inputs / Interfaces			
Incremental / SSI input <small>Transducer ID via I2C + detection</small>		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) ✓	
10V command output		5-pin round DIN plug ✓	
Software			
Doli Installation Center			
DoliDoPE, Communication library for programmers			
Processor			
CPU VortexDX86, 800MHz			

¹ optional feature for this device

www.doli.de

DOLI Elektronik GmbH
Rudolf-Diesel-Straße 3
72525 Münsingen
Telefon +49 (0) 89 202430

DOLI
wir regeln es

Document Ref. DB-EDCi10-V1.0-Rev0-20250829 | Aug 2025