UNIVERSAL ROBOTS
A Teradyne Robotics Company

CB7 Core Compact

Generation 7

Technical datasheet

Updated October 2026

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CB7 Core Compact

Compatibility	
Robot arm series	g-Series, e-Series, UR-Series
Software compatibility	PolyScope X
Teach Pendant	TP7
Models	CB7 Core Compact CB7 Core Compact 0.55m
Integration	For integration into a customer-built cabinet or machine; not for standalone use
Environment	
Operating temperature	0-50 °C with reduced performance from 35 °C and up.
Humidity	≤ 90% RH (non-condensing)
Noise level	< 55 dB(A)
Pollution degree	2
Protection	
IP classification	IP20
Physical	
Control box size (W x H x D)	387 x 158 x 201 mm / 15.2 x 6.2 x 7.9 in
Weight	9.1 kg / 20.1 lb
Materials	Aluminium, plastic, steel
Mounting	In-cabinet mounting (customer-built cabinet or machine)
Mounting orientation	Vertical and horizontal (inside customer enclosure)
Electrical interface	
I/O ports	16 configurable digital in, 16 configurable digital out (all safety-assignable as 8 dual-channel pairs), 2 analog in, 2 analog out, 4 quadrature digital in
I/O power supply	24 V / 4 A
System update frequency	500 Hz
Fieldbus	MODBUS TCP, EtherNet/IP adapter, PROFINET
USB	2x USB-A, 2x USB-C (DisplayPort on one USB-C port)
Network	3x Ethernet RJ-45 (10/100/1000 Mbps), 1000BASE-T
SCC rating	200 A
Power supply	100-240 VAC, 50-60 Hz
Control Box connector type	Harting receptacle
Robot connector mating cycles	750
TP connector mating cycles	750
Memory	
RAM	16 GB
Flash	20 GB onboard
CB7 Core Compact 0.55m	
Robot connector length	550 mm cable to panel-mount connector
Extended robot connector lead	Longer robot-interface lead for panel-mount connection on the customer cabinet wall

Contact

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CB7 Core Compact

Generation 7 · g-Series 01

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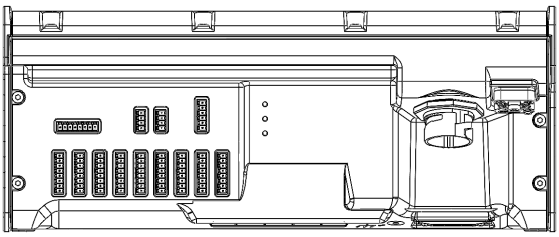
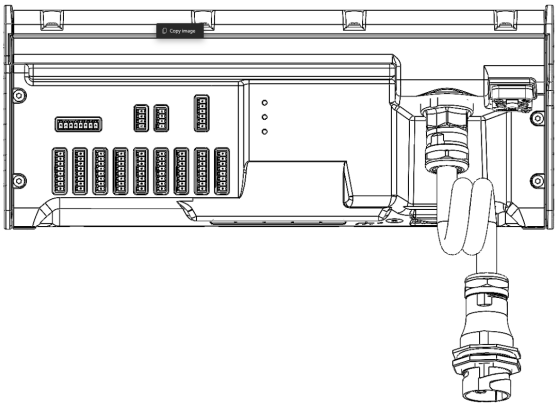
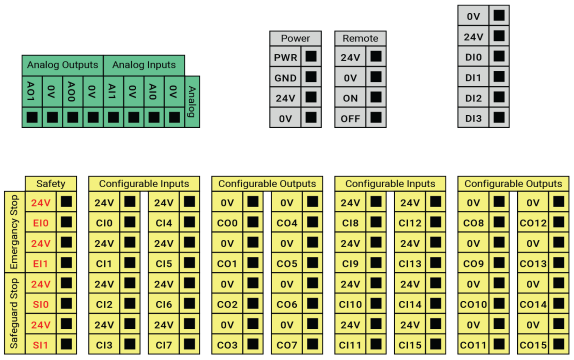
CB7 Core Compact



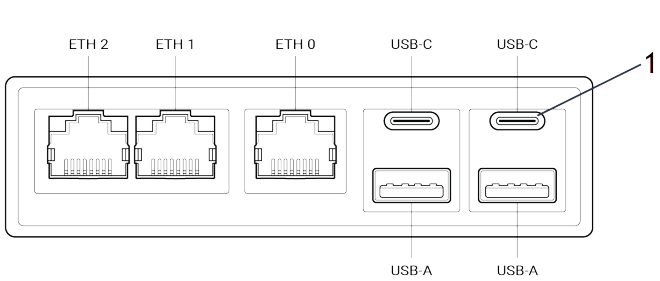
CB7 Core Compact 0.55m



Controller I/O terminal layout



Control ports diagram



UNLESS OTHERWISE SPECIFIED: Dimensions are in millimeters.

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Contact

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