



UNIVERSAL ROBOTS

A Teradyne Robotics Company

CB7 Compact

Generation 7

Technical datasheet

Updated September 2026

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CB7 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	Less than 50 dB(A)
Pollution degree	2

Protection

IP classification	N/A (integrated into the customer enclosure; enclosure IP is the responsibility of the integrator)
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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	8.5 kg / 18.7 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
Communication	MODBUS TCP & EtherNet/IP adapter, PROFINET, USB 2.0, USB 3.0, USB Type C
Network	3x Ethernet RJ-45 (10/100/1000 Mbps), 1000BASE-T
SCC rating	200 A
Power supply	100-240 VAC, 47-440 Hz
Control Box connector type	Harting receptacle

CB7 Compact 0.55m

Extended robot connector lead

Robot connector length	550 mm cable to panel-mount connector
Description	Longer robot-interface lead for panel-mount connection on the customer cabinet wall

Contact



UR HQ address

UR HQ phone

UR email

UR website

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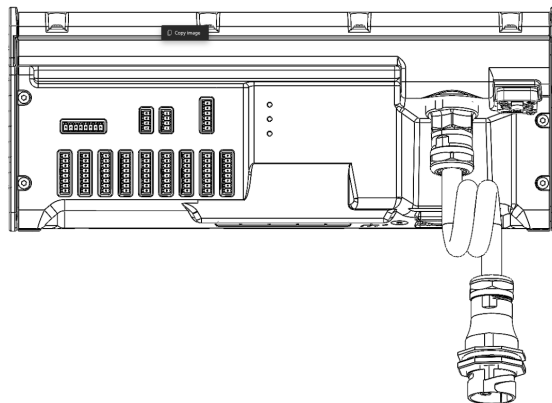
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Generation 7 · g-Series 01

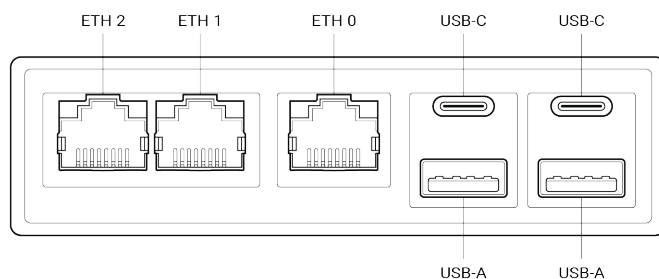
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CB7 Compact 0.55m



Control ports diagram



UNLESS OTHERWISE SPECIFIED: Dimensions are in millimeters.

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