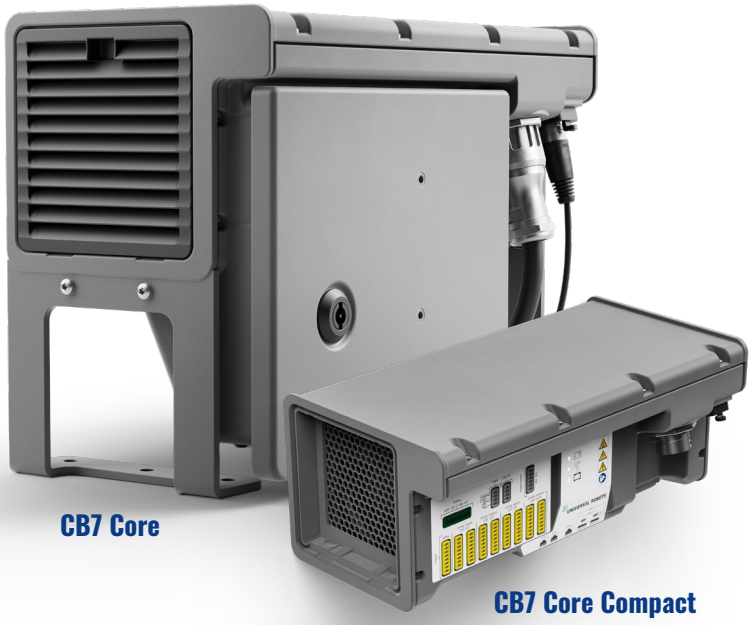
UNIVERSAL ROBOTS
A Teradyne Robotics Company

Gen 7 Platform

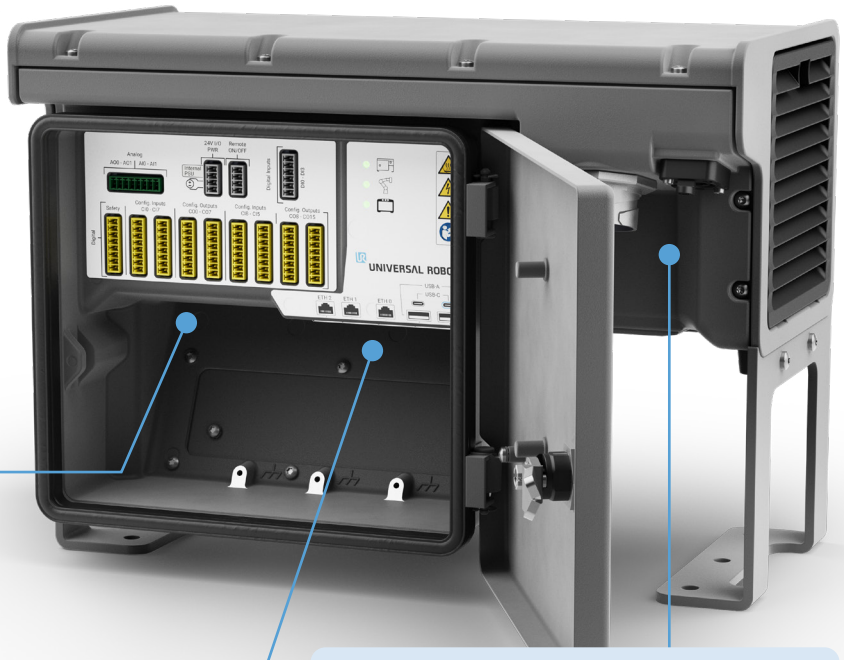
CB7 Core controllers



Universal Robot's 7th generation compute for advanced automation.

Connect more and simplify integration for advanced automation.

CB7 Core offers 40% more compute power in a 30% smaller footprint than previous controller generations, to support the requirements of advanced automation and physical AI. The new controller enables multi-network communication for modern automation and physical AI architectures, connecting to PLCs, HMIs, MES platforms, IPCs, and vision systems, reducing the need for external switches.



Choose your configuration

- CB7 Core in IP54 cabinet for standard installations or
- CB7 Core Compact for rail mounting in automation cabinets

Flexible integration

- 16 x configurable safety rated digital I/Os
- Modbus, Ethernet IP/Adapter, PROFINET, OPC UA

More connectivity

- 3 x Gb Ethernet enables multi-network communications while keeping company data and networks secure

Robust service-ready design

- Industrial grade connectors improve connection stability and durability
- Improved field-serviceable design

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CB7 Core controllers





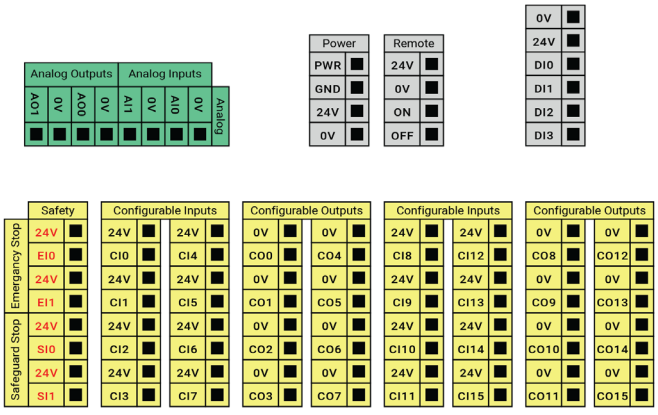
Technical Data Highlights

Model	CB7 Core	CB7 Core Compact
Enclosure type	Cabinet	Rail mounted
Dimensions	393 × 284 × 201 mm / 15.5 × 11.2 × 7.9 in	387 × 158 × 201 mm / 15.2 × 6.2 × 7.9 in
Weight	11 kg / 24.3 lbs	8.5 kg / 18.7 lbs
IP Classification	IP54	IP20
Network	3 × 1 Gb Ethernet	
USB	2 x USB 3.0 Type A, 2 x USB 3.0 USB Type C	
I/O	16 Configurable Digital I/O, 4 Analog I/O, 4 Quadrature Digital In	
Power supply	24 V DC, 4A	
Compliance	TUV Certified to EN ISO 13849-1, EN ISO 10218-1, UL1740, EMC	

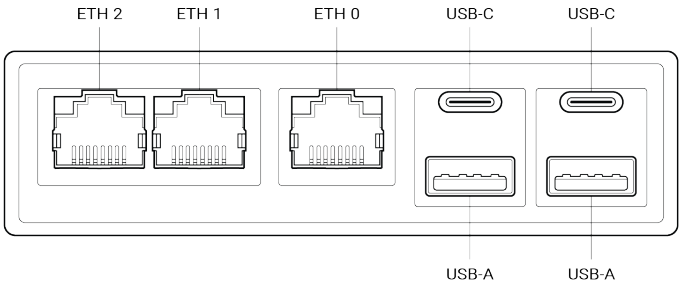
Compatibility

- ✓ Robot Arm: g-Series, e-Series, UR20/UR30
- ✓ Teach Pendant: TP7 Core
- ✓ Software: PolyScope X
- ✓ Cables: Gen 7 cables

CB7 Core I/O Terminal layout



CB7 Core Ports Diagram



Learn more about Universal Robots 7th Generation computel
Explore Gen 7 online

UR | MiR
TERADYNE Robotics

The Global Leader in Collaborative Robotic Innovation
Universal Robots (UR), a Teradyne Robotics company, empowers manufacturers of all sizes to automate repetitive and dangerous tasks. Our solutions optimize production lines, leading to superior product consistency and operational flexibility, while delivering the fastest ROI in the industry.

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