All ACR7000 Series controllers are equipped with Ethernet communications. Factory default IP address is **192.168.100.1**

Download **Parker Motion Manager** software to configure and program the controller. Includes detailed user guides.
www.parkermotion.com/acr7000

Standards and Conformance
CE Marking Directive 93/68/EEC
EMC Directive 2014/30/EU
RoHS Directive 2011/65/EU (RoHS2)
EN 61800-3 Adjustable speed electrical power drive systems - EMC product standard including specific test method

⚠️ **Safety Warning** ⚠️

High-performance motion control equipment is capable of producing rapid movement and very high forces. Unexpected motion may occur especially during the development of controller programs. KEEP WELL CLEAR of any machinery driven by stepper or servo motors. Never touch any part of the equipment while it is in operation.

This product is sold as a motion control component to be installed in a complete system using good engineering practice. Care must be taken to ensure that the product is installed and used in a safe manner according to local safety laws and regulations. In particular, the product must be positioned such that no part is accessible while power may be applied.

This and other information from Parker Hannifin Corporation, its subsidiaries, and authorized distributors provides product or system options for further investigation by users having technical expertise. Before you select or use any product or system, it is important that you analyze all aspects of your application and review the information concerning the product in the current product catalog. The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, safety, and warning requirements of the application are met.

If the equipment is used in any manner that does not conform to the instructions given in the user guide, then the protection provided by the equipment may be impaired.

ACR7000 Quick Reference Guide

Multi-Axis Motion Controller

ACR74C - 4 Axis   ACR78C - 8 Axis

Front View

(ACR74C-A0V2C1 4 Axis model shown)

⚠️ **Caution:** Before inserting or removing any connectors or wires, always remove power from the unit.

Ethernet

Yellow = Link established
Yellow flashing = Activity
Green = 100Mbps

Enable

Motion Enable Input

Pin	Signal
-	GND
+	+24VDC

Status LED
Green = Control Power ON

CTRL +24V

Control Power Input

Pin	Signal
RTN	GND
+V	+24VDC

Analog Inputs (-ANI Option)

Pin	Signal	Pin	Signal
16	Analog Ground 7	15	Analog Input 7
14	Analog Ground 6	13	Analog Input 6
12	Analog Ground 5	11	Analog Input 5
10	Analog Ground 4	9	Analog Input 4
8	Analog Ground 3	7	Analog Input 3
6	Analog Ground 2	5	Analog Input 2
4	Analog Ground 1	3	Analog Input 1
2	Analog Ground 0	1	Analog Input 0
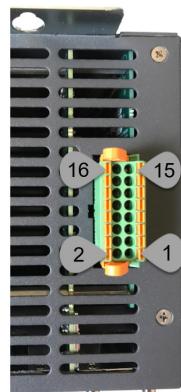
Axis Connectors

Pin	Signal
1	5 VDC PWR
2	DC RETURN
3	Encoder CHA+
4	Encoder CHA–
5	Encoder CHB+
6	Encoder CHB–
7	Encoder CHZ+
8	Encoder CHZ–
9	5VDC PWR
10	Step+
11	Step–
12	Direction+
13	Direction–
14	Analog Out+
15	Analog Out-
16	Drive Fault+
17	Drive Fault–
18	5VDC PWR
19	Drive GND
20	Drive Enable–
21	Drive Enable+
22	Drive Reset–
23	Drive Reset+
24	Drive GND
25	No Connect
26	No Connect

Input/Output Connectors

Pin	Inputs(0-11)	Input(24-31)/ Output(32-35)	Inputs(12-23)*	Input(72-77)/ Output(36-39)*
25	Input 5 -	Input 29 -	Input 17 -	Input 77 -
24	Input 0 -	Input 24 -	Input 12 -	Input 72 -
23	Input 0 +	Input 24 +	Input 12 +	Input 72 +
22	Input 1 -	Input 25 -	Input 13 -	Input 73 -
21	Input 1 +	Input 25 +	Input 13 +	Input 73 +
20	Input 2 -	Input 26 -	Input 14 -	Input 74 -
19	Input 2 +	Input 26 +	Input 14 +	Input 74 +
18	Input 3 -	Input 27 -	Input 15 -	Input 75 -
17	Input 3 +	Input 27 +	Input 15 +	Input 75 +
16	Input 4 -	Input 28 -	Input 16 -	Input 76 -
15	Input 4 +	Input 28 +	Input 16 +	Input 76 +
14	No Connect	No Connect	No Connect	No Connect
13	Input 5 +	Input 29 +	Input 17 +	Input 77 +
12	Input 6 -	Input 30 -	Input 18 -	Input 78 -
11	Input 6 +	Input 30 +	Input 18 +	Input 78 +
10	Input 7 -	Input 31 -	Input 19 -	Input 79 -
9	Input 7 +	Input 31 +	Input 19 +	Input 79 +
8	Input 8 -	Output 32 -	Input 20 -	Output 36 -
7	Input 8 +	Output 32 +	Input 20 +	Output 36 +
6	Input 9 -	Output 33 -	Input 21 -	Output 37 -
5	Input 9 +	Output 33 +	Input 21 +	Output 37 +
4	Input 10 -	Output 34 -	Input 22 -	Output 38 -
3	Input 10 +	Output 34 +	Input 22 +	Output 38 +
2	Input 11 -	Output 35 -	Input 23 -	Output 39 -
1	Input 11 +	Output 35 +	Input 23 +	Output 39 +

*Only included with 8 axis controllers

⚠️ The Motion Enable Input MUST be connected to 24VDC in order to enable drives.

NOTE: Motion Enable Input can be used as a part of a circuit to prevent motion and remove power from the motors. Note that if the input is deactivated while in motion, **command signals will be blocked immediately without a deceleration ramp.**