

AS QUATRO | ASQ2448 Quatro Motor Controller

4 BLDC Motor	6 I.O. Config.	3.5 inch Display	Profinet TCP/IP Ethercat	24 V 340 Watt	48 V 480 Watt
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Intended Use

AS Quatro motor controllers can be used to control AS motors and motor driven rollers but also other renowned brands in the market. The open concept allows for future changes on demand.

The controllers are commonly used to control BLDC motors in the field of:

- Conveyor modules
- Sorter and Diverters
- Linear motion applications
- Peripheral controls & HMI devices

Designed for the future

The AS Quatro in combination with AS motors and Motor driven rollers are designed to run according to the specified applications. It is possible to enter boost mode for higher demand applications that require higher starting torque.

Operational specifications and state of the art features.

- Eco, power and custom performance settings
- Interactive visual HMI
- Multiprotocol onboard chip
- Preventive maintenance en advanced analytics



Scope of delivery

The scope of delivery defines the required components in order to create a working application, it is advised to consult our website for training material to choose what components you need for your application or what kits are available.

Information	Specifications	Details	Scope
1 AS QUATRO Controller	4x motor 6x I.O. 1x Power in 2x Emergency	480 Watt	Included
2 M12 4-pin T coded Cable	Male to Female (for power)	1500 mm	Not Included
3 M12 4-pin D coded Cable	Male to RJ-45 (for communication)	1500 mm	Not Included
4 I.O. Splitter Cable	1x Snap in M8 2x Screw M12	150 mm	Not Included
5 3 pin Snap-in	2x M8 male	1500 mm	Not Included
6 AS MDR or External Motor	24V or 48V BLDC motors	50 Watt	Not Included
7 M12 4-pin D coded Cable	Male to Male (for communication)	1500 mm	Not Included
8 M8 5-pin	Male to Femal extension cable (for motor)	1500 mm	Not Included
9 24V or 48V Power Supply	24V 20A or 48V 10A Powersupply	480 Watt	Not Included

Technical Specifications

AS QUATRO | ASD2448 Quatro Motor Controller

	24 VDC Input	48 VDC Input
Input voltage (Rated)	24 VDC 14A range 18 -28 VDC	48VDC 10A range 42 -54 VDC
Motor Outputs (Rated)	4x 24 VDC at 3 A	4x 48 VDC at 2A
Starting Current	4.5A at 24 VDC	3.0A at 48 VDC
Power Consumption (Rated)	340 W	480 W
Motor Connector	M8 5-pin Snap-in[4x]	
I.O... Connector	M8 4-pin Snap-in [3x]	
I.O... Power	350 mA at 24 VDC	
Emergency Connector	M8 3-pin Snap-in [2x]	
Overvoltage Protection	+32 V @24 VDC	+60 V @48 VDC
Temperature Protection	> 90 C° shut down, resets after temperature falls below 90 C° and speed or power toggle.	
Motor Interfaces	PWM 12Khz 10 V (10 - 100%) Analog 0 -10 V (10 - 100%)	
Communication Interfaces	TCP/IP Profinet Ethercat Ethernet IP I.O. ¹	
Certifications	CE ETL ²	
Ambient Temperature	Operation 0 to +40 C° Transport -20 to +80 C°	
Protection Rate	IP 54 IP65 (on request) ³	
Installation Altitude	Max +1000 m from sea level	
Dimensions LxWxH	210 x 75 x 30 mm	
Weight	360 grams	

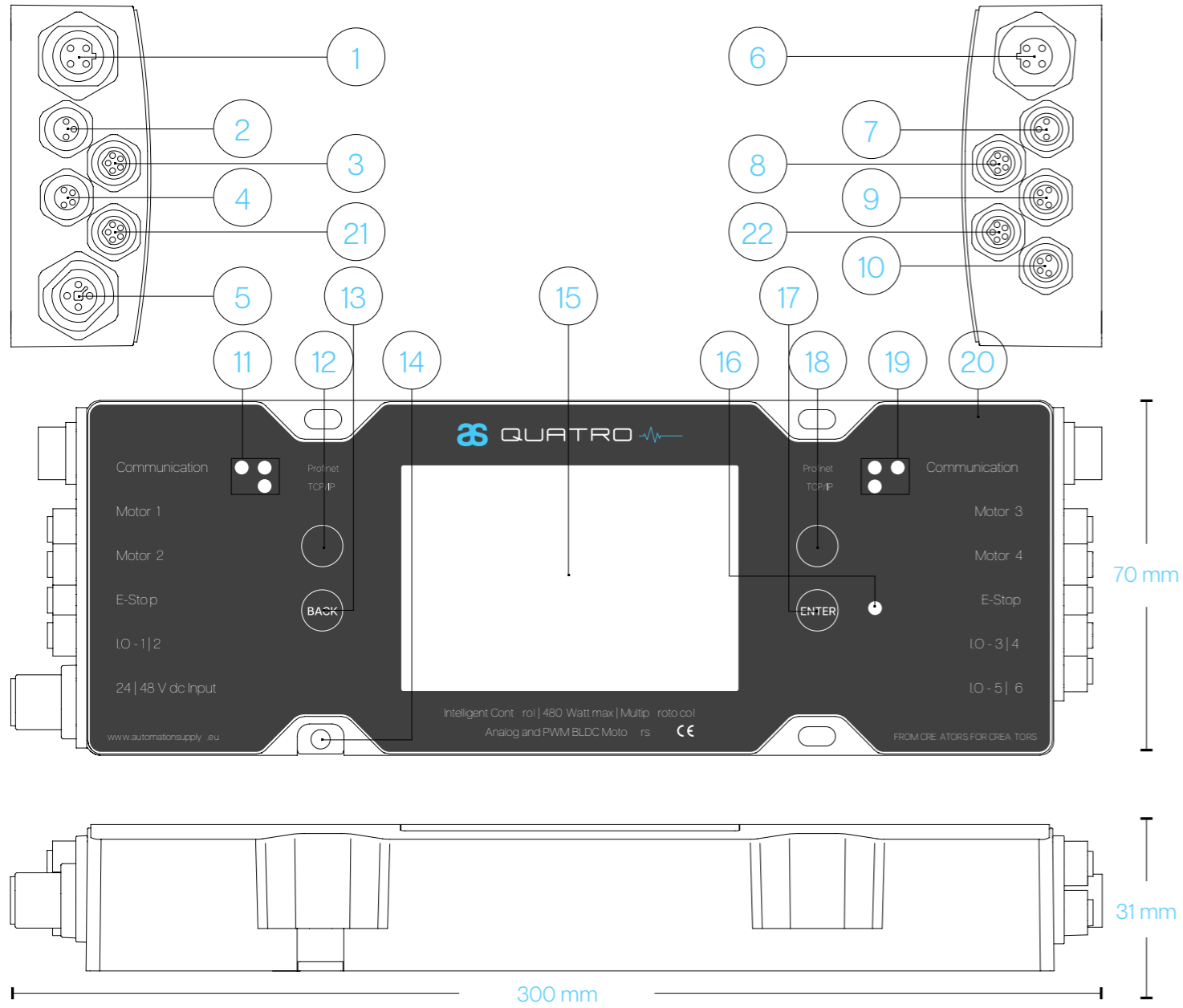
Additional information

1. Currently TCP/ IP | Profinet and I.O.. are available. We always improve our products, please contact us if Ethercat and Ethernet IP are required for your project.
2. Contact us for information about applications in countries that require ETL listed components.
3. Please contact us if your application requires IP 65 protection rate, or other requirements.

Please visit our website for the latest 3D CAD drawings and other technical data.

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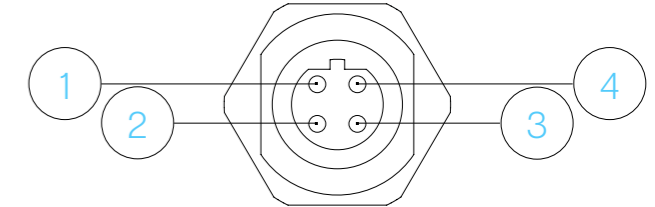
Description	Details	Description	Details
1 Communication A	M12 4P Female (D code)	12 Multi purpose button A (Left or Up)	Button
2 Emergency A	M8 3P Female	13 Return button (BACK)	Button
3 Motor 1	M8 5P Female	14 Ground for PE (use knurled washer)	Safety
4 Configurable I.O. 1 2	M8 4P Female	15 3.5 inch full color display	Graphic UI
5 Power in 24 48 V	M12 4P Female (T code)	16 Power status	LED
6 Communication B	M12 4P Female (D code)	17 Enter button (OK)	Button
7 Emergency B	M8 3P Female	18 Multi purpose button B (Right or Down)	Button
8 Motor 2	M8 5P Female	19 Communication status B	LED
9 Configurable I.O. 3 4	M8 4P Female	20 Product Sticker	Adhesive Sticker
10 Configurable I.O. 5 6	M8 4P Female	21 Motor 3	M8 5P Female
11 Communication status A	LED	22 Motor 4	M8 5P Female

Connection Specifications

Communication Connector



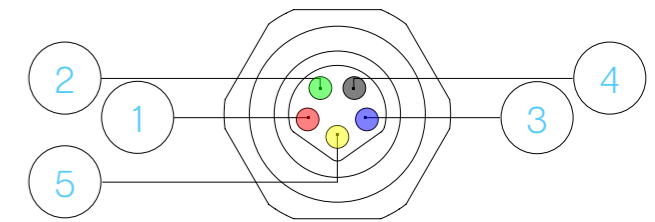
- 24 V
- Ground
- TX
- Rx



Motor Connector



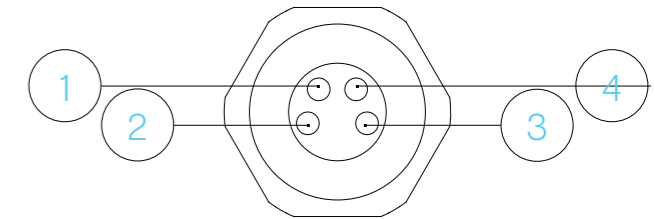
- 24 V / 48 V | Red | 0.34 mm²
- Direction | Green | 0.25 mm²
- GND | Blue | 0.34 mm²
- Error / Pulse | Black | 0.25 mm²
- Speed | Yellow | 0.25 mm²



Configurable I.O. Connector



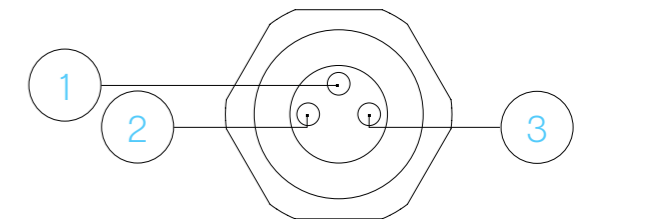
- 24V
- GND
- Sig 1
- Sig 2



Emergency Connector



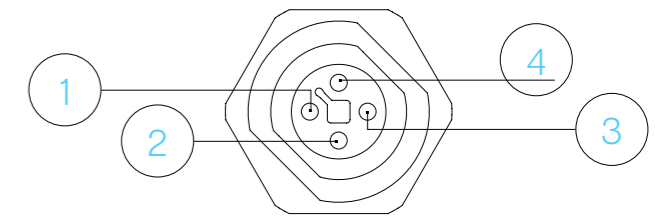
- 24V
- GND
- Sig 1



Power Connector



- 24 V / 48 V
- 24 V / 48 V
- Ground
- Ground



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User Interface

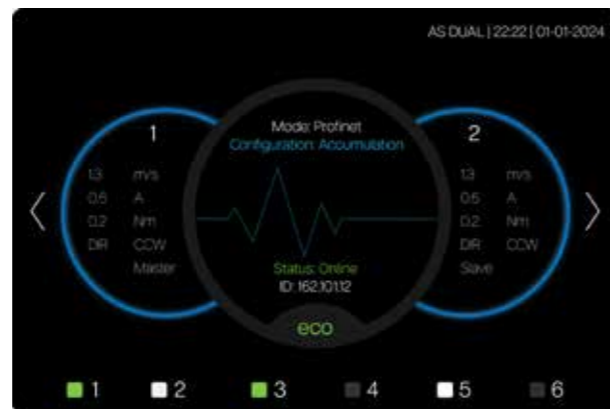
The AS Quatro Motor Controller has a intuitive user interface that is self explanatory. By following the steps in the user interface functions can be applied easily. Use the main menu to navigate quickly to the desired controls page.



Dashboard

The Dashboard contains an overview of the current motor and I.O. parameters as well as communication status.

The intuitive design represents the future of automation showing real-time data and options for future feedback implementations.



Motor Configuration

The motor configuration allows users to set motor settings and configuration of 1 or more connected motors.

The configurations can help to achieve more performance, save energy and improve the workflow.



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Interface Communication

Interface Communication is used to set functions that require the use of multiple motors and controllers such as zero pressure accumulation.

The communication protocol with the PLC can also be selected here.



Device Settings

In Device Settings the user can customize and check general device settings as well as do a factory reset to restore factory settings.

Whenever new firmware releases are uploaded to the controller these can be selected here as well.



Configuration Input & Outputs

In the configurations tab it is possible to set the required functionalities of the Configurable I.O.s.

Depending on the chosen firmware different functionalities and configurations are accessible.



Analytics Performance

AS controllers keep track of the performance data of the controllers and connected motors and peripherals.

Warnings and how to resolve them can also be found in this menu



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Motor

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Example Applications: Portable Right Angle Sorter

The AS Dual Motor Controller can be used for almost any application in the field of automation and intralogistics.



Required Components and Modules

	Information	Specifications
1	ASRA Right Angle Sorter	Sorts up to 1.240 Packages per hour @ 35 kg
2	ASBM Belt Module	Transport weights up to 35 kg @ 1.25 m/sΩ
3	ASD2448 Dual motor controller	2x motor 6x I.O. 1x Power in 2x Emergency
3	ASQ2448 Quatro motor controller	4x motor 6x I.O. 1x Power in 2x Emergency

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Disclaimer

AS and AS partners are not responsible for integration and usage of our products outside of the specified application range, technical specifications and in combination with third party components.

Images may differ from the actual product due to our continuous product improvement.



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