

## Specifications

### POWER SUPPLY

Model	Power Supply	Max. Out Current
SN4D2030	12 ÷ 48 Vdc	0.0 ÷ 3.0 ARMS (4.20 APEAK)

### COMMUNICATION INTERFACE

Industrial Ethernet Interface Multiprotocol

### ENCODER INTERFACE

1 incremental encoder not isolated input for each motor  
5V Single-Ended (TTL/CMOS) or 24V Sink

### SCI INTERFACE

service SCI interface for programming and real time debug

### EMULATED STEP RESOLUTION

Stepless Control Technology (65536 positions per turn)

### SAFETY PROTECTIONS

Over/UnderVoltage, OverCurrent, OverTemperature,  
Phase/Phase and Phase/Ground Short

### TEMPERATURE

operating from 5°C to 40°C, storage -25°C to 55°C

### HUMIDITY

5% ÷ 85%

### PROTECTION CLASS

IP65



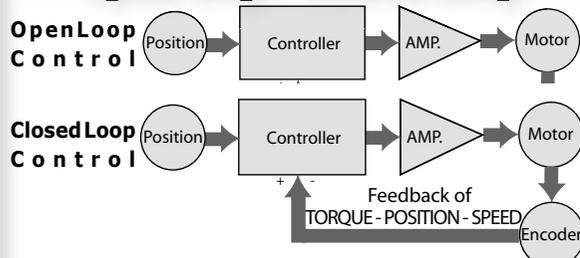
The drive can be configured to communicate with a wide range of major fieldbuses on the market without any hardware alteration but with a simple software setup.

Fieldbuses already available for interfacing on a Multiprotocol device include:



Downloading the ad hoc firmware, it's possible to change the communication protocol according to the need of your application. Multiprotocol drives ensure fast and flexible operation and user-friendly configuration provided on the software, without the need for additional servers or special hardware.

## Open loop / Closed Loop



Better control compared to both an open loop stepper solution and a servo-controlled brushless solution

## Powerlink fieldbus vectorial drivers for 2 independent stepper motors

**TITANIO**  
VECTOR - STEPPER - DRIVES



## SN4D Titanio drivers

- Outputs to drive two independent motors
- Industrial Ethernet Interface Multiprotocol
- Service serial for real time programming and debugging
- Compliance with the most common PLC Masters on the market
- IP65 protection
- Closed loop of speed, torque and position



**EVER Motion Solutions srl**  
Via del Commercio, 2/4 -9/11  
Loc. S. Grato - Z.I.  
26900 - LODI (LO) - Italy  
Tel. 0039 0371 412318 - Fax 0039 0371 412367  
email infoever@everelettronica.it  
www.everelettronica.it

## Powerlink

Fieldbus configuration (slave) - c0A80

Powerlink with integrated DS402 functionalities.

- Supported Modes:
  - Profile Torque Mode**
  - Profile Position Mode, Velocity Mode**
  - Profile Velocity Mode, Homing Mode**
  - Interpolated Position Mode**
  - Cyclic Synchronous Position Mode**
  - Cyclic Synchronous Velocity Mode**
  - Cyclic Synchronous Velocity Mode**
- Multiple Supported Homing Modes: 1, 2, 17, 18, 19, 20, 21, 22, 35, 37
- Touch Probe functionalities
- Factor Group
- Dynamic PDO Mapping
- Minimum cycle time: 1 ms



Drive control through commands by Master Controller

Suitable for multi axes systems, built in powerful Motion Module functionality assures perfect synchronization among axes and reduces Master Controller workload

## Configuration software

Fieldbus configuration (slave)



Ever co. proprietary PC Software Tools for easy and quick configuration or programming, real time debug and supervision of each system

Autonomous management of the **homing**, of the target movement with relative or absolute quota and for the generation of the ramp profiles

**Torque mode** for operation with torque limitation

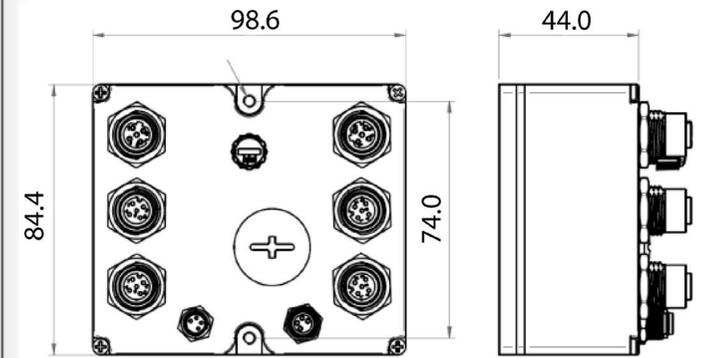
Speed control thanks fieldbus

**Electronic CAM** with advanced programming of internal profiles inside the drive

**Electric shaft** with encoder with variable tracking ratio (Electric Gear)

Enabling and on-the-fly changing of the motion control modes

## Mechanical Data



Models	Dimensions (mm)			Weight (g.)
	H	L	W	
SN4D2030x202-0x	84.4	98.6	44.0	400 about

## Ordering information for SN4D Powerlink

Ordering code		Power		System resources			Control mode
Versions	Config.	Power supply	Current	Encoder input	Interface	SCI interface	Modes
<b>SN4D drives model</b>							
SN4D2030R202-00	c0A80	24 ÷ 48 Vdc	0 ÷ 3.0 Arms for each motor (0÷4.20 Apeak for each motor)	Incremental 24 Vdc Sink	Powerlink	Service serial for configuration, programming and debug in real time	Fieldbus Powerlink
SN4D2030R202-00				Incremental 5 Vdc Single-Ended (TTL/CMOS)			
SN4D2030H202-00	c0690			Incremental 24 Vdc Sink	EtherCAT		Fieldbus EtherCAT
SN4D2030H202-01				Incremental 5 Vdc Single-Ended (TTL/CMOS)			
SN4D2030E202-00	c0890			Incremental 24 Vdc Sink	Modbus TCP/IP		Programmable 'Stand Alone' on Modbus TCI/IP fieldbus
SN4D2030E202-01				Incremental 5 Vdc Single-Ended (TTL/CMOS)			
SN4D2030T202-00	c0990			Incremental 24 Vdc Sink	Profinet		Programmable 'Stand Alone' on Profinet fieldbus
SN4D2030T202-01				Incremental 5 Vdc Single-Ended (TTL/CMOS)			

## Configuration and Programming Kits

Kit code	Description
SN4D_SERV00-SL	SCI configuration communication kit with cables, service serial to RS485 and RS485 to USB converters.