

PDM_{NT}



EtherCAT[®] 4 Axis Pulse/Direction Interface Module

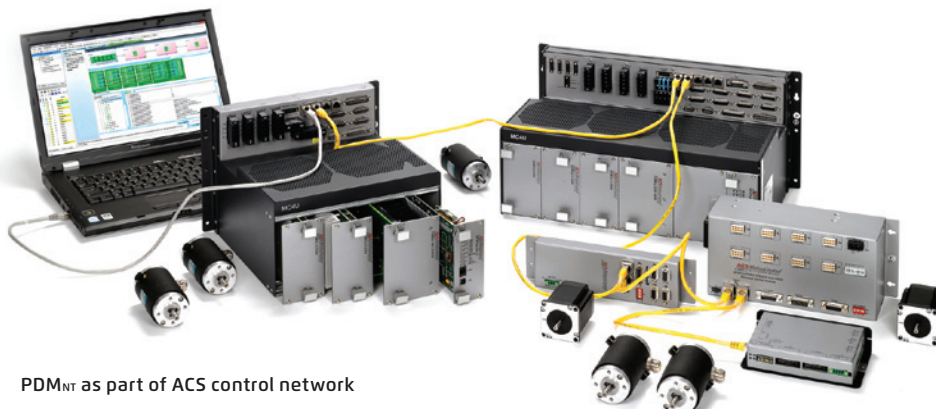
- Four axis Pulse Direction interface Module for EtherCAT network
- Open loop control of Servo or Step motor drives with Pulse/ Direction interface
- High frequency programmable pulse rate for triggering lasers
- Up to 4M pulses per second
- Eight digital inputs and eight digital outputs

The PDM_{NT} provides the ability to add up to four step motor and servo motor drives with Pulse/Dir interface to an EtherCAT network using any of ACS' EtherCAT masters.

Each of the drive interfaces consists of Pulse/Dir, limit switches, enable and fault feedback.

The maximum pulse rate is 4MHz.

The module can also be used by a SPiiPlus EtherCAT master to control Laser generators with a dynamically programmable pulse rates.



PDM_{NT} as part of ACS control network

CE

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ACS
MOTION CONTROL

Specifications

Control supply

Control supply input voltage: 24Vdc ± 10%
 Max. input power: 5.5W
 Input current: <0.25A

Pulse/Direction Interface

Four pairs (one pair per axis)
 Type: Differential, RS422 compatible,
 Max. Pulse rate: 4 MHz (4,000,000 pulses per second)
 Pulse Width: Min. 120 ns, Max. 50 µs

Digital I/O

The Digital I/O are powered by 5Vdc or 24Vdc external source

Safety Inputs:

Eight, two per axis
 Type: Single-ended, opto-isolated. Configurable by the user as either source (default) or sink, 5 Vdc ±10% or 24 Vdc ±20%
 Max. input current <14 mA

Digital Inputs:

Eight General purpose inputs:
 Type: 5Vdc or 24Vdc, single-ended, sink or source (default), opto-isolated.
 Input circuit current: <14mA

Digital Outputs:

Eight General purpose outputs:
 Type: 5Vdc or 24Vdc, single ended, sink or source (default), optoisolated, 50mA per output and 400mA for all outputs.

Environment

Operating range: 0 to + 40°C
 Storage and transportation range: -25 to +60°C
 Humidity (operating range): 5% to 90% non-condensing

Communication

Two EtherCAT ports, In and Out, RJ45 connector.

Dimensions

264 H x 75 W x 25 D (mm³)
 Panel or DIN rail mounted

Ordering options

Ordering options	Field	Example	Values
Number of axes with P/D interface	1	4	4 - four axes
Number of Digital Inputs	2	08	08 - eight
Number of Digital Outputs	3	08	08 - eight
Number of Analog Inputs	4	00	00 - None
Number of Analog Outputs	5	00	00 - None
Special options and features	6	1	1 - For any EtehrCAT SPiiPlus based network

Example: PDM_{NT}-4-08-08-00-00-1

Field		1	2	3	4	5	6
PN	PDM _{NT}	4	08	08	00	00	1