Nippon Pulse
Your Partner in Motion Control
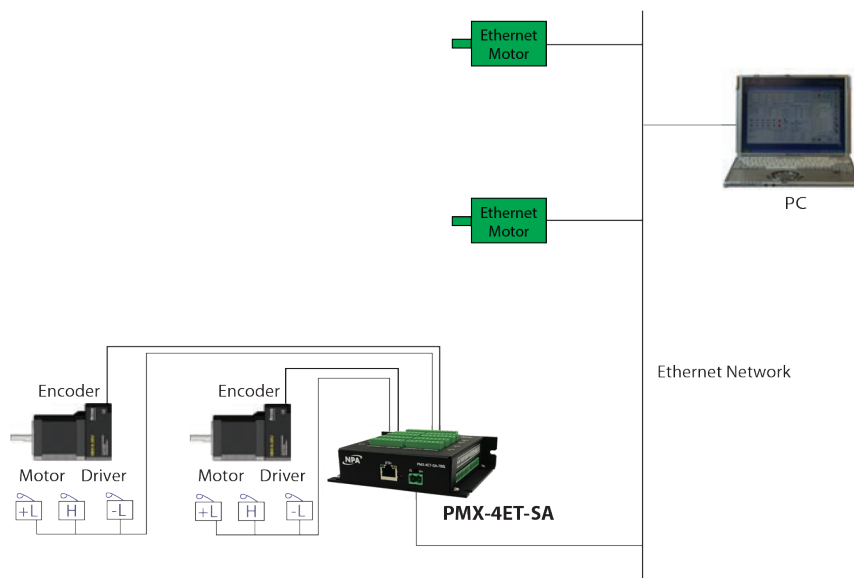
PMX-4ET-SA
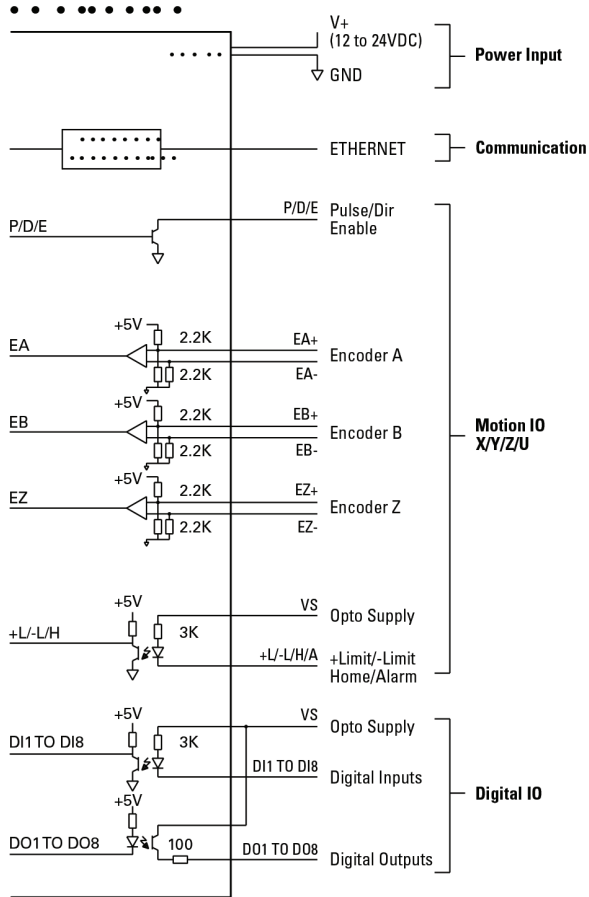## Advanced 4-Axis Motion Controller with Ethernet Communication

Specifications

- 4 Axis Advanced Motion Controller
- 10 Mbps Ethernet Communication
- 6M maximum pulse rate output
- Trapezoidal or s-curve acceleration
- On-the-fly speed change
- Continuous linear coordinated buffered XYZ move
- XYZU linear coordinated motion
- XY circular and arc coordinated motion
- Homing using Home and/or Index encoder channel
- Pulse/Dir/Enable open collector outputs per axis

- Opto-isolated +Limit, -Limit, Home, and Alarm inputs per axis
- Single-ended or differential quadrature encoder inputs per axis
- Opto-isolated Digital Inputs (8)
- Opto-isolated Digital Outputs (8)
- High speed position capture inputs and sync outputs
- Built-in StepNLoop closed loop control algorithm
- BASIC-like standalone programming language
- Multi-task programming support

Electrical Interface

V+
(12 to 24VDC) — Power Input
GND

ETHERNET — Communication

P/D/E
P/D/E Pulse/Dir
Enable

EA +5V 2.2K EA+
2.2K EA-
Encoder A

EB +5V 2.2K EB+
2.2K EB-
Encoder B

EZ +5V 2.2K EZ+
2.2K EZ-
Encoder Z

Motion IO
X/Y/Z/U

+L/-L/H +5V 3K VS Opto Supply
+L/-L/H/A +Limit/-Limit
Home/Alarm

DI1 TO DI8 +5V 3K VS Opto Supply
DI1 TO DI8 Digital Inputs

DO1 TO DO8 +5V 100 DO1 TO DO8 Digital Outputs

Digital IO

Dimensions

0.150
0.390
0.175
3.250
4.650

MOTION INPUTS
ENC U ENC Z
ENC Y ENC X
AXIS U AXIS Z
AXIS Y AXIS X

4.100

DO8
DO7
DO6
DO5
DO4
DO3
DO2
DO1
DI8
DI7
DI6
DI5
DI4
DI3
DI2
DI1
VS
VS

0.600
0.175
ETH
PMX-4ET-SA-TBS
G V+
1.200
4.650
5.000