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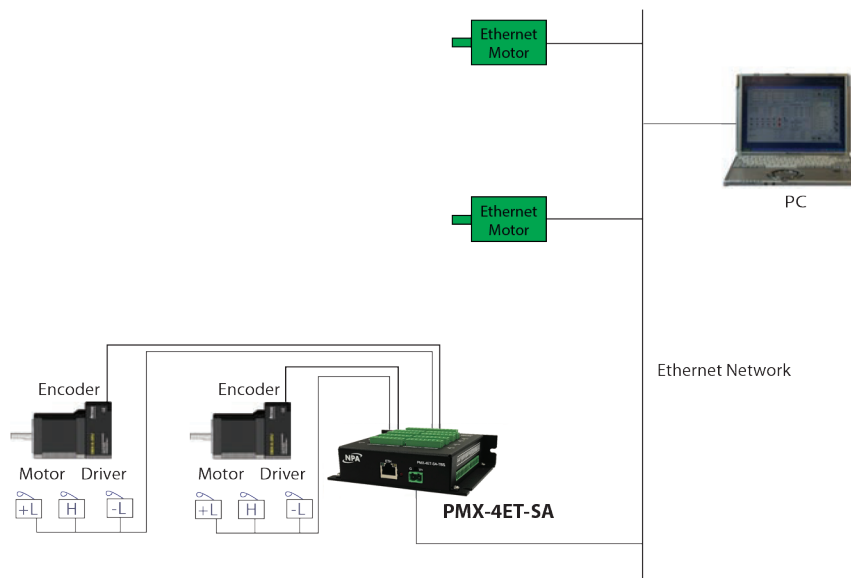
PMX-4ET-SA
Advanced 4-Axis Motion Controller with Ethernet Communication
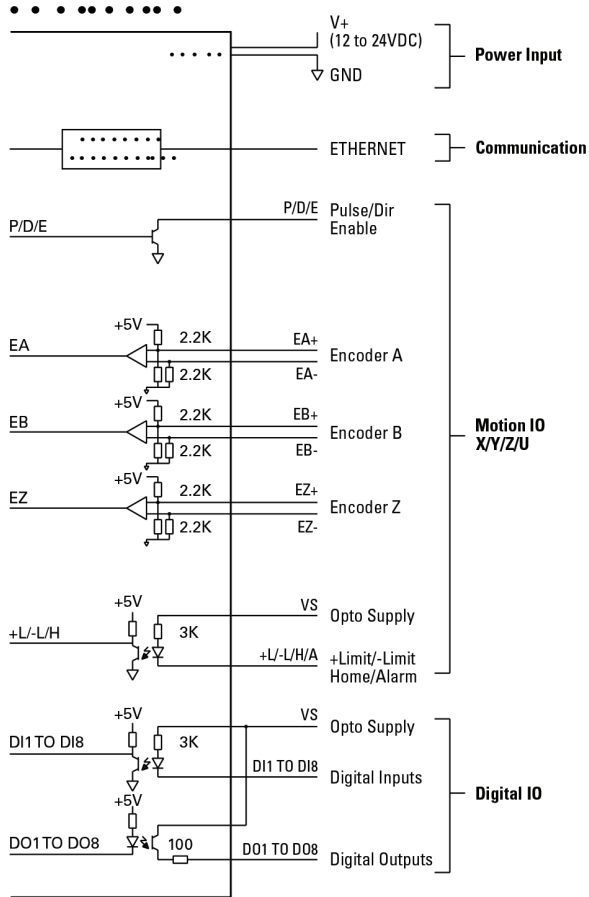

Specifications

- 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

PMX-4ET-SA

Advanced 4-Axis Motion Controller with Ethernet Communication

Electrical Interface

V+ (12 to 24VDC)	
GND	Power Input
ETHERNET	Communication
P/D/E	Pulse/Dir Enable
EA+ / EA-	Encoder A
EB+ / EB-	Encoder B
EZ+ / EZ-	Encoder Z
VS	Opto Supply
+L/-L/H/A	+Limit/-Limit Home/Alarm
VS	Opto Supply
DI1 TO DI8	Digital Inputs
DO1 TO DO8	Digital Outputs

Motion IO X/Y/Z/U

Digital IO

P/D/E

EA — +5V — 2.2K / 2.2K

EB — +5V — 2.2K / 2.2K

EZ — +5V — 2.2K / 2.2K

+L/-L/H — +5V — 3K

DI1 TO DI8 — +5V — 3K

DO1 TO DO8 — +5V — 100

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
V+

0.600

0.175

ETH

PMX-4ET-SA-TBS

G V+

1.200

4.650

5.000