



SynqNet™

TA801 & TA802

1 AXIS RMB

2 AXIS RMB

SMART SOLUTIONS IN MOTION CONTROL

1 & 2 AXIS REMOTE MOTION BLOCK
(SynqNet to Traditional Drive Bridge)

THE TA80X SYNQNET REMOTE MOTION BLOCKS

from Trust Automation allow a SynqNet distributed network to work with traditional motion amplifier devices. The TA80X series is designed for easy terminal breakout, block-free installation into OEM machines.

Standard configurations provide either 1 or 2 axes of control using industry standard high-density D-Sub connectors. Simple cables allow direct connection to servo or stepper drives while maintaining lowest possible cost.

The Trust Automation family of SynqNet products provides functionality, normally found only on integrated SynqNet Drives, to any Drive or Amplifier.

Now, by augmenting the SynqNet design with a flexible interconnect architecture, custom connections and features can be developed easily for customer-specific applications.



FEATURES

- SynqNet Network
- (1, 2) Axes
- (2, 4) $\pm 10V$ analog or (1, 2) Step and Direction outputs
 - Up to 2 DAC's per Axis for Sinusoidal Commutation
- (1, 2) A,B,Z Differential Encoder Inputs
- (1, 2) U,V,W Differential Hall Effect Inputs or Active Low Single-Ended
- (1, 2) Brake Outputs 24V DC, 500mA
- (2, 4) TTL Level 5V outputs for each axis
- (3, 6) Optically-isolated 24V inputs for Home, Positive Limit and Negative Limit
- (1, 2) Optically-isolated 24V inputs (general purpose)
- (1, 2) 24V 500mA Outputs, general purpose
- (1, 2) High Speed Capture Inputs, 1 per Axis
- Complete Status LED's for SynqNet and each Axis



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PINOUTS

J4 – 0,1 SENSOR - 15 PIN HIGH DENSITY D-SUB FEMALE

| # | DESCRIPTION | # | DESCRIPTION | # | DESCRIPTION |
|---|----------------------------|----|----------------------------|----|-------------------|
| 1 | ISO 24V DC | 6 | HOME INPUT 24V DC | 11 | ISO GND RTN |
| 2 | ISO 24V DC | 7 | LIMIT + INPUT 24V DC | 12 | ISO GND RTN |
| 3 | ISO 24V DC | 8 | LIMIT - INPUT 24V DC | 13 | ISO GND RTN |
| 4 | OUTPUT 24V DC | 9 | ISO GND RTN | 14 | USER INPUT 24V DC |
| 5 | INPUT HIGH SPEED CAPTURE + | 10 | INPUT HIGH SPEED CAPTURE - | 15 | SHIELD - CHASSIS |

J5 – 0,1 DRIVE - 15 PIN HIGH DENSITY D-SUB MALE

| # | DESCRIPTION | # | DESCRIPTION | # | DESCRIPTION |
|---|----------------|----|--------------|----|---------------|
| 1 | DAC 0 + | 6 | ISO 5V DC | 11 | DAC 1 + |
| 2 | DAC 0 - | 7 | ISO GND RTN | 12 | DAC 1 - |
| 3 | FAULT (HIGH) | 8 | ENABLE (-) | 13 | OUTPUT 5V TTL |
| 4 | STEP + | 9 | DIR + | 14 | OUTPUT 5V TTL |
| 5 | STEP - | 10 | DIR - | 15 | ENABLE (+) |

J6 – 0,1 MOTOR - 26 PIN HIGH DENSITY D-SUB FEMALE

| # | DESCRIPTION | # | DESCRIPTION | # | DESCRIPTION |
|---|-------------------|----|-------------|----|------------------|
| 1 | ENC A+ | 10 | ENC B+ | 19 | ENC Z+ |
| 2 | ENC A - | 11 | ENC B - | 20 | ENC Z - |
| 3 | ISO GND RTN | 12 | ISO 5V DC | 21 | ISO GND RTN |
| 4 | HALL U+ | 13 | HALL V+ | 22 | HALL W+ |
| 5 | HALL U - | 14 | HALL V - | 23 | HALL W - |
| 6 | ISO GND RTN | 15 | ISO 5V DC | 24 | ISO GND RTN |
| 7 | THERM USER INPUT | 16 | ISO GND RTN | 25 | SHIELD - CHASSIS |
| 8 | BRAKE 24VDC 750mA | 17 | SHUTDOWN + | 26 | ISO 24V DC |
| 9 | ISO GND RTN | 18 | SHUTDOWN - | | |

NOTE: Hall inputs can accept single-ended Hall sensors. See manual for details.

SYNQNET IN & OUT: RJ-45

POWER – PHOENIX CONTACT 5.0MM PLUGGABLE HEADER. (MATING POWER CONNECTOR PROVIDED)

REV. 3