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) ±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

TRUST™ AUTOMATION, INC.
205 Suburban Road. San Luis Obispo, CA 93401 ph/805.544.0761
www.trustautomation.com

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)

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