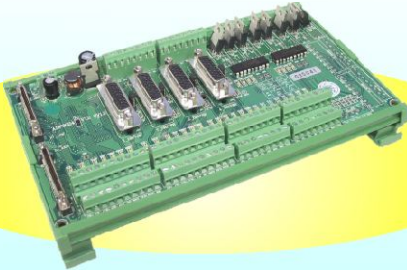




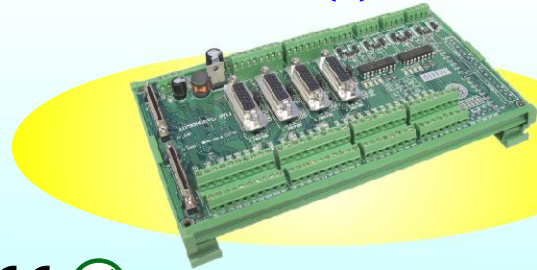
Bridging the Gap between Real World and Computer

3024A/3028A/3034A/3035A/AL Wiring Board

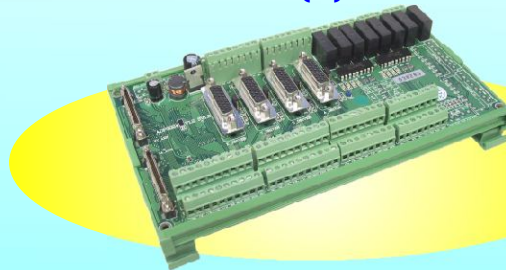
ADP3024DIN(N)



ADP3024DIN(P)



ADP3024DIN(R)



Pin Assignments

+24Vin	68 34	+24Vin	
+5Vin	67 33	+5Vin	
EXTG	66 32	EXTG	
NC	65 31	NC	
EXTG	64 30	EMG	
NC	63 29	NC	
NC	62 28	NC	
NC	61 27	NC	
NC	60 26	NC	
NC	59 25	NC	
NC	58 24	NC	
(Y/A) ERC	57 23	SVON (Y/A)	
(Y/A) ALM	56 22	SRDY (Y/A)	
(Y/A) INP	55 21	CCW- (Y/A)	
(Y/A) CCW+	54 20	CW- (Y/A)	
(Y/A) CW+	53 19	EZ- (Y/A)	
(Y/A) EZ+	52 18	EB- (Y/A)	
(Y/A) EB+	51 17	EA- (Y/A)	
(Y/A) EA+	50 16	CMP (Y/A)	
(Y/A) FIN	49 15	LTC (Y/A)	
(Y/A) PCS	48 14	HOME (Y/A)	
(Y/A) SD	47 13	LS- (Y/A)	
(Y/A) LS+	46 12	ERC (X/Z)	
(X/Z) SVON	45 11	ALM (X/Z)	
(X/Z) SRDY	44 10	INP (X/Z)	
(X/Z) CCW-	43 9	CCW+ (X/Z)	
(X/Z) CW-	42 8	CW+ (X/Z)	
(X/Z) EZ-	41 7	EZ+ (X/Z)	
(X/Z) EB-	40 6	EB+ (X/Z)	
(X/Z) EA-	39 5	EA+ (X/Z)	
(X/Z) CMP	38 4	FIN (X/Z)	
(X/Z) LTC	37 3	PCS (X/Z)	
(X/Z) HOME	36 2	SD (X/Z)	
(X/Z) LS-	35 1	LS+ (X/Z)	
		+5Vout	10
		+5Vout	1 19
		EB-	11
		EZ-	2 20
		EB+	12
		EZ+	3 21
		EXTG	13
		EXTG	4 22
		CW+	14
		CW-	5 23
		CCW-	15
		EXTG	6 24
		EXTG	16
		INP	7 25
		ALM	17
		EXTG	8 26
		ERC	18
		EXTG	9

Specifications

- ▶ Power Requirement : 24Vdc \pm 4Vdc
- ▶ On Board Build-In s.p.s. : +5Vdc 500mA (Max)
- ▶ General Input : 4 with LED indicators
- ▶ General Output :
 - ADP3024DIN(N) : 8 NMOS (Sink 1A @120Vdc) with LED indicators
 - ADP3024DIN(P) : 8 PMOS (Source 1A @24Vdc) with LED indicators
 - ADP3024DIN(R) : 8 Relays (3A @250Vac or 3A @30Vdc) with LED indicators
- ▶ Connector : 2 68-pin mini scsi female connector for main Card connection
- ▶ Specific Servo Control Connector : 4 D-type 26p (1 per axis)
- ▶ Operation Temperature : 0 °C ~ +70 °C
- ▶ Operation Humidity : 5~95% RH, non-condensed
- ▶ Dimension :
 - ADP3024DIN(N)/(R) : 121(W)*204(L)*47(H)mm
4.8(W)*8.1(L)*1.9(H)in
 - ADP3024DIN(P) : 121(W)*204(L)*45(H)mm
4.8(W)*8.1(L)*1.8(H)in

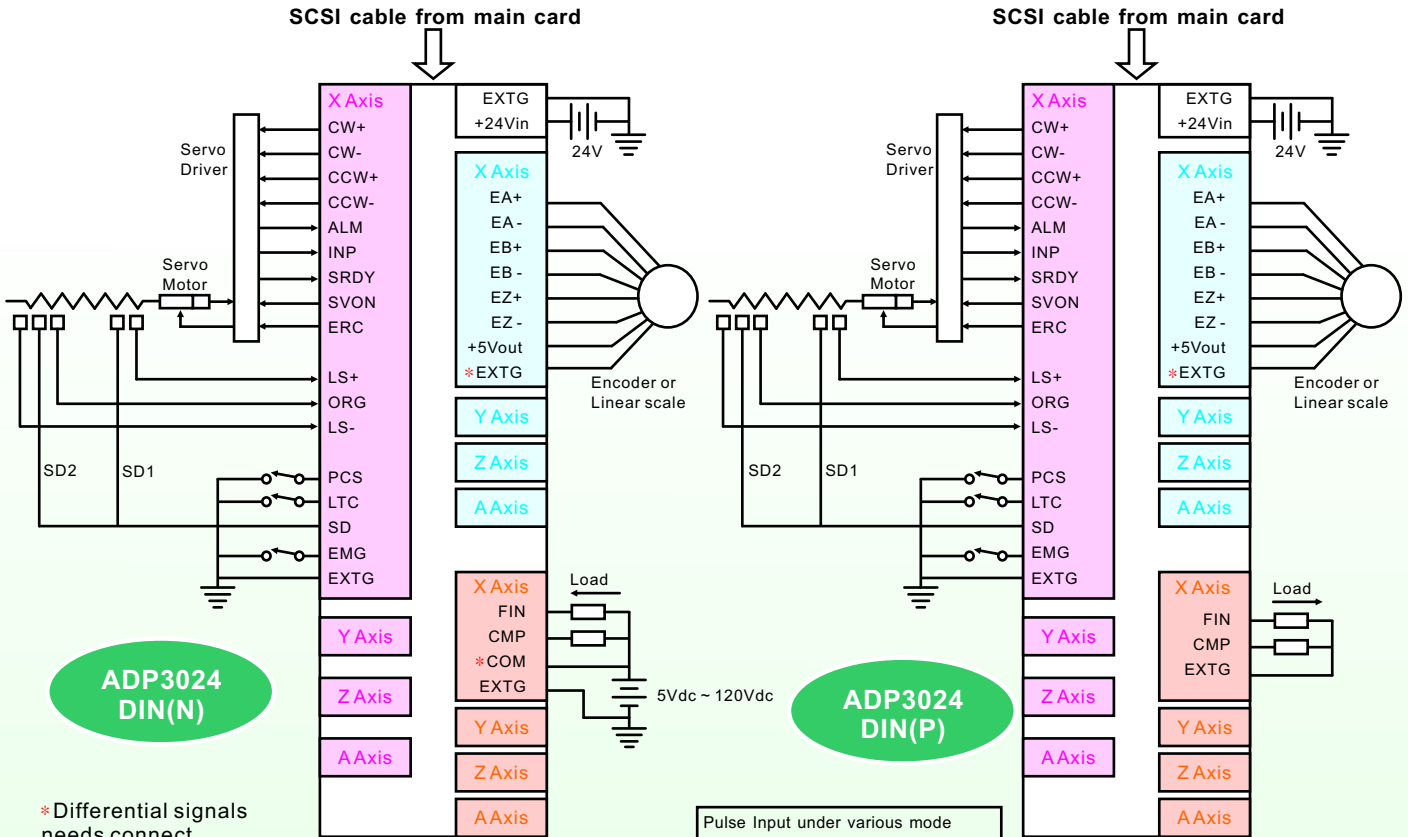
Matched I/O Card

- ▶ **MPC3024A** : 4-axis Motion Control Card for Servo/Stepping Motor Control (include SM23404) **P.3**
- ▶ **MPC3028A** : 8-axis Motion Control Card for Servo/Stepping Motor Control (include SM23404) **P.7**
- ▶ **MPC3034A** : 4-axis Motion Control Card for Servo/Stepping Motor Control with advanced functions (include SM23404) **P.9**
- ▶ **MPC3035A** : 4-axis motion control card with advanced encoder counter function for servo / step motor control with 2 8-bit DA's (include SM23404, SM23405) **P.11**
- ▶ **MPC3035AL** : 4-axis Motion Control Card for Servo / Stepping Motor Control (include SM23404, SM23405) **P.11**



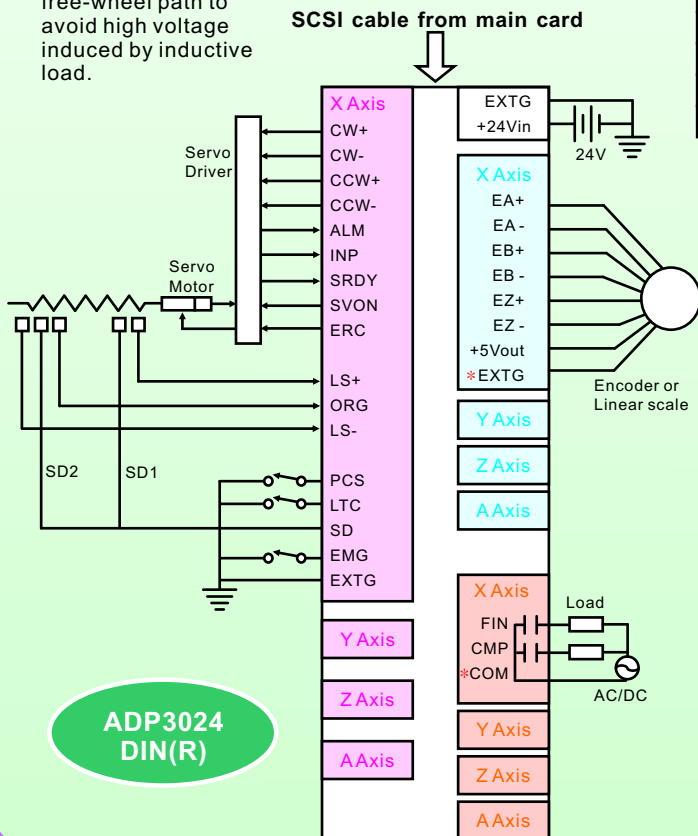
Bridging the Gap between Real World and Computer

Wiring Diagram



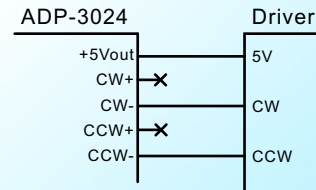
*Differential signals needs connect EXTG as common.
 *COM connect to power supply as free-wheel path to avoid high voltage induced by inductive load.

Input Terminal	Quadrature	Single Pulse	Dual Pulse
EA+	EA+	Clock+	CW+
EA-	EA-	Clock-	CW-
EB+	EB+	Dir+	CCW+
EB-	EB-	Dir-	CCW-
EZ+	EZ+	NA	NA
EZ-	EZ-	NA	NA

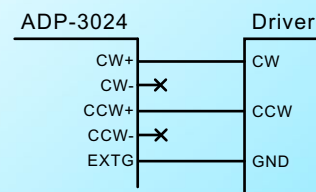


Application Tips

► Using differential signal to drive single end input driver



(For normally high type single end input, driver will take low as active pulse)



(For normally low type single end input, driver will take high as active pulse)