



## PCI-TMC12AU

Universal PCI, 12-ch Timer/Counter Board

### Introduction




The PCI-TMC12AU card is designed as a direct replacement for the PCI-TMC12A without requiring any modification to the software or the driver.

The PCI-TMC12AU Universal PCI cards support the 3.3 V/5 V PCI bus, and provide twelve 16-bit timers/counters (four 82C54 chips x 3 timers/counters), 16 TTL Digital Input channels and 16 TTL Digital Output channels. The two onboard clocks (8 M/1.6 M and 0.8 M/80 K) are jumper selectable and provide a high-resolution clock source for timers/counters. Counters/timers can be used for industrial and laboratory applications such as pulse/event/switch-toggle counting, frequency readings, elapsed time measurement, pulse-width measurement, PWM (pulse-width-modulated) output, and pulse (square wave) and rate generation, etc.

### Pin Assignments

Pin Assignment	Terminal No.	Pin Assignment	Pin Assignment	Terminal No.	Pin Assignment
ECLK1	01	20	EXTG1	01	DO 0
COUT1	02	21	ECLK2	02	DO 2
EXTG2	03	22	COUT2	03	DO 4
ECLK3	04	23	EXTG3	04	DO 6
COUT3	05	24	ECLK4	05	DO 8
EXTG4	06	25	COUT4	06	DO 10
ECLK5	07	26	EXTG5	07	DO 12
COUT5	08	27	ECLK6	08	DO 14
EXTG6	09	28	COUT6	09	DO 16
ECLK7	10	29	EXTG7	10	DO 18
COUT7	11	30	ECLK8	11	DO 20
EXTG8	12	31	COUT8	12	DO 2
ECLK9	13	32	EXTG9	13	DO 4
COUT9	14	33	ECLK10	14	DO 6
EXTG10	15	34	COUT10	15	DO 8
ECLK11	16	35	EXTG11	16	DO 10
COUT11	17	36	ECLK12	17	DO 12
EXTG12	18	37	COUT12	18	DO 14
GND	19			19	DO 16
				20	DO 18
				21	DO 20
				22	DO 2
				23	DO 4
				24	DO 6
				25	DO 8
				26	DO 10
				27	DO 12
				28	DO 14
				29	DO 16
				30	DO 18
				31	DO 20
				32	DO 2
				33	DO 4
				34	DO 6
				35	DO 8
				36	DO 10
				37	DO 12
					DO 14
					DO 16
					DO 18
					DO 20
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## Accessories

	CA-2002 CR	20-pin flat cable, 20 cm x 2 (RoHS)
	CA-2010 CR	20-pin flat cable, 1 M (RoHS)
	CA-2020 CR	20-pin flat cable, 2 M (RoHS)
	CA-3710 CR	DB-37 Male-Male D-sub cable 1 M (Cable for Daughter Board (45°)) (RoHS)
	CA-3710D CR	DB-37 Male-Male D-sub cable 1 M (Cable for Daughter Board (180°)) (RoHS)
	CA-3715DM-H CR	DB-37 Male-Male Cable, 1.5 M, 180° (RoHS)
	CA-3730DM-H CR	DB-37 Male-Male Cable, 3.0 M, 180° (RoHS)
	CA-3750DM CR	DB-37 Male-Male Cable, 5.0 M, 180° (RoHS)
	CA-3750DM-H CR	DB-37 Male-Male Cable, 5.0 M, 180° (RoHS)
	CA-4002 CR	37-pin Male D-sub connector with plastic cover (RoHS)
	DB-37 CR	Directly connect signal to D-sub 37-pin connector (RoHS)
	DN-37 CR	DIN Rail Mounting 37-pin Connector (RoHS)
	DN-20 CR	Two 20-pin header DIN-rail terminal board (RoHS)
	DN-20/N CR	DN-20 without DIN-Rail mount (RoHS)
	DB-16P CR	Isolated Digital Input Daughter Board (RoHS)
	DB-16R CR	Relay Output Daughter Board (RoHS)
	ADP-20/PCI CR	20-pin extender (RoHS)

