

TC-020-EP2 User's Guide

Hi-Speed

EPP/ECP Parallel I/O

- **Two Channel Parallel Interface**
 - Support Enhanced Parallel Port (EPP)/Extended Capabilities Port (ECP) Modes
 - ECP/EPP/BPP/SPP Mode Selectable
- **Each port Supports Six Base Addresses**
 - LPT1 (3BCH), LPT2 (378H), LPT3 (278H), LPT4 (268H), LPT5 (27CH), LPT6 (26CH)
- **Each Port Supports Nine Interrupt Request Lines**
 - IRQ 3, 4, 5, 7, 9, 10, 11, 12, 15
- **DMA Channel 1 & 3 For ECP Mode**

TC-020-EP2 EPP/ECP PARALLEL I/O

INTRODUCTION:

The TC-020-EP2 EPP/ECP PARALLEL I/O provides two high speed parallel ports solution for PC/XT and PC/AT system. It supports two multi-mode parallel ports with Enhanced Parallel Port (EPP)/Extended Capabilities Port (ECP) modes.

TC-020-EP2 is highly flexible with the selection of port address and IRQ. Each port address is configurable to any of six different port addresses from LPT1 to LPT6. The versatile interrupt feature provides nine IRQ selections of IRQ3, 4, 5, 7, 9, 10, 11, 12, 15.

FEATURES:

- * Support two multi-mode parallel ports with Enhanced Parallel Port (EPP)/Extended Capabilities Port (ECP) modes.
- * ECP/EPP/BPP/SPP Mode Selectable
- * Each port supports LPT1 to LPT6 [port address 3BCH (LPT1), 378H (LPT2), 278H (LPT3), 268H (LPT4), 27CH (LPT5), 26CH (LPT6).]
- * Each port supports nine interrupt request lines. (IRQ3, 4, 5, 7, 9, 10, 11, 12, 15.)
- * Support DMA Channel 1 & 3 For ECP Mode.
- * Functions can be disabled by jumpers.
- * Form factor: 130 mm * 65 mm.

CONFIGURATION - JUMPER SETTING

(A) LPT-A PORT ADDRESS JUMPER SETTING (JP1A, B, C)

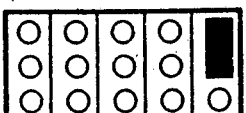
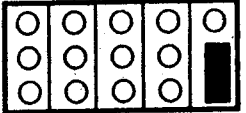
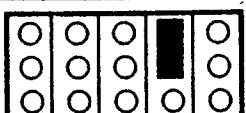
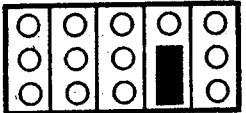
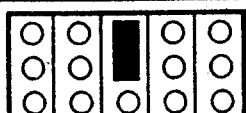
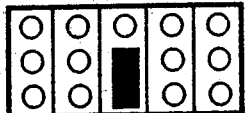
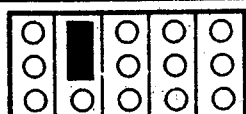
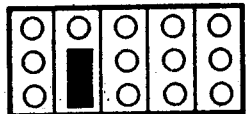
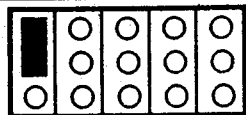
LPT-A	PORT ADDRESS (MODE)	JUMPER SETTING					
		JP1A		JP1B		JP1C	
LPT 1	3BCH - 3BEH (SPP, PS/2)	1	2==3	1==2	3	1	2==3
* LPT 2	378H - 37AH (SPP, PS/2) 378H - 37FH (EPP, ECP)	1	2==3	1	2==3	1	2==3
LPT 3	278H - 27AH (SPP, PS/2) 278H - 27FH (EPP, ECP)	1==2	3	1	2==3	1	2==3
LPT 4	268H - 26AH (SPP, PS/2)	1	2==3	1	2==3	1==2	3
LPT 5	27CH - 27EH (SPP, PS/2)	1	2==3	1==2	3	1==2	3
LPT 6	26CH - 26EH (SPP, PS/2)	1==2	3	1	2==3	1==2	3
DISABLE		1==2	3	1==2	3	1==2	3
		1==2	3	1==2	3	1	2==3

(B) LPT-A MODE SELECT (JP1D, E)

MODE	PROVIDED BY:	JUMPER SETTING			
		JP1D		JP1E	
* SPP	LPT 1 - LPT 6	1	2==3	1	2==3
PS/2	LPT 1 - LPT 6	1==2	3	1	2==3
EPP	LPT 2 and LPT 3	1	2==3	1==2	3
ECP	LPT 2 and LPT 3	1==2	3	1==2	3

(C) LPT-A IRQ setting (JP2)

Possible interrupt jumper setting:

IRQ 3		IRQ 4	
IRQ 5		*IRQ 7	
IRQ 9		IRQ10	
IRQ11		IRQ12	
IRQ15			

(D) LPT-A DMA channel select for ECP mode (JP6A, B)

DMA channel	JP6A	JP6B
DMA 1	1==2 3	1==2 3
* DMA 3	1 2==3	1 2==3

**(E) LPT-B PORT ADDRESS JUMPER SETTING
(JP3A, B, C)**

LPT-B	PORT ADDRESS (MODE)	JUMPER SETTING					
		JP3A		JP3B		JP3C	
LPT 1	3BCH - 3BEH (SPP, PS/2)	1	2==3	1==2	3	1	2==3
LPT 2	378H - 37AH (SPP, PS/2) 378H - 37FH (EPP, ECP)	1	2==3	1	2==3	1	2==3
* LPT 3	278H - 27AH (SPP, PS/2) 278H - 27FH (EPP, ECP)	1==2	3	1	2==3	1	2==3
LPT 4	268H - 26AH (SPP, PS/2)	1	2==3	1	2==3	1==2	3
LPT 5	27CH - 27EH (SPP, PS/2)	1	2==3	1==2	3	1==2	3
LPT 6	26CH - 26EH (SPP, PS/2)	1==2	3	1	2==3	1==2	3
DISABLE		1==2	3	1==2	3	1==2	3
		1==2	3	1==2	3	1	2==3

(F) LPT-B MODE SELECT (JP3D, E)

MODE	PROVIDED BY:	JUMPER SETTING			
		JP3D		JP3E	
* SPP	LPT 1 - LPT 6	1	2==3	1	2==3
PS/2	LPT 1 - LPT 6	1==2	3	1	2==3
EPP	LPT 2 and LPT 3	1	2==3	1==2	3
ECP	LPT 2 and LPT 3	1==2	3	1==2	3

(G) LPT-B IRQ setting (JP4)

Possible interrupt jumper setting:

IRQ 3		IRQ 4	
*IRQ 5		IRQ 7	
IRQ 9		IRQ10	
IRQ11		IRQ12	
IRQ15			

(H) LPT-B DMA channel select for ECP mode (JP5A, B)

DMA channel	JP5A	JP5B
* DMA 1	1==2 3	1==2 3
DMA 3	1 2==3	1 2==3

NOTES:

== : SHORT.

* : FACTORY DEFAULT.

CONNECTORS & CABLE:

CN2: LPT-A Parallel port connector.

CN1: LPT-B Parallel port cable.

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