

AT MULTI I/O CARD

MODEL—UA828

USER'S MANUAL

1. INTRODUCTION

UA828 IS A COMPACT MULTI I/O CARD FOR IBM PC/AT AND 286 & 386 COMPATIBLE MACHINES. UA828 EQUIPPED WITH TWO SERIAL PORTS (ONE OPTIONAL) AND ONE PARALLEL PORT.

THE SERIAL PORT CAN BE SELECTED AS COM1, COM2, COM3 OR COM4 & THE PARALLEL PORT CAN BE SELECTED AS LPT2 OR LPT3.

1.1 FEATURES

- 2 ASYNCHRONOUS SERIAL PORTS J1 & J2. (ONE OPTIONAL)
- 1 PARALLEL PRINTER PORT P2.
- 1 GAME ADAPTER PORT P1.
- BOTH ASYNCHRONOUS SERIAL PORTS & PARALLEL PRINTER PORT SELECTABLE.
- INTERRUPT SELECTABLE : IRQ2-IRQ7.

2. INSTALLATION

1. BEFORE INSTALLED THE UA828, YOU MUST TURN OFF YOUR SYSTEM.
2. MAKE SURE THE CONFIGURATION JUMPERS IS SET CORRECTLY.
3. CAREFULLY REMOVE THE MACHINE'S COVER AND ONE OF THE EMPTY SLOT BRACKET FROM THE REAR PANEL.
4. PLUG THE UA828 AT I/O CARD INTO THE EMPTY SLOT AND PUT THE SIGNAL CABLE FOR SERIAL PORT, WHICH SHOULD BE AVAILABLE TOGETHER WITH THE CARD, OUT FROM THE REAR PANEL.
5. REPLACE THE SCREWS AND FIX THE UA828.
6. REPLACE YOUR SYSTEM COVER AND THE INSTALLATION PROCEDURE IS COMPLETED.

REMARKS: UA828 IS PROVIDED WITH ONE/TWO (DEPENDING NOS. OF SERIAL PORT PURCHASED) 10 PIN FLAT CABLE FOR RS232 CONNECTION.

2.1 JUMPER SETTING

DO NOT INSTALL THE UA828 BEFORE YOU CAN UNDERSTAND YOUR SYSTEM ENVIRONMENT. YOU SHOULD SET THE JUMPERS CORRECTLY IN ORDER TO MAKE THE UA828 WORK PROPERLY.

JUMPER	SHORTER INSERTING	FUNCTION SELECTED
J3	1-2 3-4 ALL OPEN	PRINTER PORT - LPT2 LPT3 PRINTER PORT DISABLE
J4 RS-232 #2	1-2 3-4 5-6 7-8 ALL OPEN	SERIAL PORT - COM1 COM2 COM3 COM4 SERIAL PORT DISABLE
J5 RS-232 #1	1-2 3-4 5-6 7-8 ALL OPEN	SERIAL PORT - COM1 COM2 COM3 COM4 SERIAL PORT DISABLE
J6	1-2 2-3	GAME PORT DISABLE GAME PORT ENABLE
J7 RS-232 #2	1-2 3-4 5-6 7-8 9-10 11-12	INTERRUPT LEVEL - 1RQ2 1RQ3 1RQ4 1RQ5 1RQ6 1RQ7
J8 RS-232 #1	1-2 3-4 5-6 7-8 9-10 11-12	INTERRUPT LEVEL - 1RQ2 1RQ3 1RQ4 1RQ5 1RQ6 1RQ7
J9 PRINTER PORT	5-6 6-7	INTERRUPT LEVEL - 1RQ7 1RQ5

2.2 SECOND SERIAL PORT INSTALLATION

WHEN YOU NEED TO USE THE SECOND SERIAL PORT, YOU SHOULD INSERT THE FOLLOWING IC INTO THE CORRESPONDENT SOCKET:

IC	SOCKET
1488	U2
1489	U8
16450	U12

3. LOCATION OF PORTS

PORT	ADDRESS
GAME PORT	H200
PRINTER PORT	LPT2: H378 - H37A LPT3: H278 - H27A
SERIAL PORT RS-232 #1 & RS-232 #2	COM1 : H3F8 - H3FF IRQ4 (DEFAULT) COM2 : H2F8 - H2FF IRQ3 (DEFAULT) COM3 : H3E8 - H3EF SELECTABLE COM4 : H2E8 - H2EF SELECTABLE

3.1 PIN ASSIGNMENTS OF SERIAL & PARALLEL PRINTER PORT

A. PARALLEL PRINTER PORT (P2)

LINE NAME	DB-25 (FEMALE) CONNECTOR PIN	IBM MATRIX PRINTER
STROBE (-)	1	1
DO	2	2
D1	3	3
D2	4	4
D3	5	5
D4	6	6
D5	7	7
D6	8	8
D7	9	9
ACK (-)	10	10
BUSY	11	11
PE	12	12
SLCT	13	13
AUTOFD (-)	14	14
ERROR (-)	15	32
INIT (-)	16	31
SLCT IN (-)	17	36
GROUND	(18-25)	(16, 19-30, 33)
NC		(15, 18, 34)

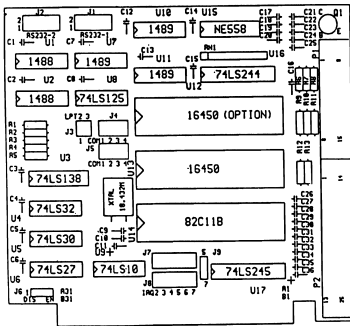
B. SERIAL PORT (J1 & J2)

SIGNAL NAME	PIN NOS.	RS-232C INTERFACE PIN NOS.
CN (IN)	1	8
RX (IN)	2	3
TX (OUT)	3	2
DTR (OUT)	4	20
SG	5	7
DSR (IN)	6	6
RTS (OUT)	7	4
CTS (IN)	8	5
R1 (IN)	9	22

C. GAME PORT (P1)

LINE NAME	DB-15 (FEMALE)
+5VDC	1
BUTTON 4	2
POSITION 0	3
GROUND	4
GROUND	5
POSITION 1	6
BUTTON 5	7
+5VDC	8
+5VDC	9
BUTTON 6	10
POSITION 2	11
GROUND	12
POSITION 3	13
BUTTON 7	14
+5VDC	15

4. UA828 PCB BLOCK DIAGRAM



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