

FEATURES:

- . Battery backed-up Calendar/Clock
- . Parallel printer port
- . Up to 2 asynchronous communication ports
- . User's EPROM/CMOS static RAM (Z2 and Z3)
- . Software Lock (Z12)

CONFIGURATION

SWITCH 1: 8 Positions

SWITCH 2: 4 positions

[1] SERIAL PORTS

SW2-1	SW2-2	DESCRIPTION
ON	ON	No serial ports installed
ON	OFF	First serial port address is COM1 (3F8 Hex)
OFF	ON	First serial port address is COM2 (2F8 Hex)
OFF	OFF	First serial port address is COM1 Second serial port address is COM2

INTERRUPT LEVELS SELECTION FOR THE SERIAL PORTS

INT LEVEL	COM1	COM2
IRQ2	E50-E51	E53-E54
IRQ3	E45-E46	E48-E49 (Standard)
IRQ4	E46-E47 (Standard)	E47-E48
IRQ5	E51-E52	E52-E53

[2] PARALLEL PRINTER PORT

SW2-4 ON = Parallel Port address is 378 Hex (LPT1)
 SW2-4 OFF = Parallel Port address is 278 Hex (LPT2)

PARALLEL PORT DIRECTIONAL CONTROL

E69-E71
E29-E32 Selects one-way communication from the PC to the parallel printer port and the standard Centronics interface (factory setting)

E27-E30 Selects internal bidirectional control

E28-E31 Selects external bidirectional control

INTERRUPT LEVELS SELECTION FOR THE PARALLEL PORT

IRQ2	E42-E43
IRQ3	E39-E40
IRQ5	E40-E41
IRQ7	E43-E44 (Standard)

[3] CALENDAR/CLOCK

SW2-3 ON = Clock address is 350 Hex
 SW2-3 OFF = CLock address is 250 Hex

INTERRUPT LEVELS SELECTION FOR THE CALENDAR/CLOCK

IRQ2	E36-E37
IRQ3	E33-E34
IRQ4	E34-E35
IRQ5	E37-E38

NOTE: The calendar/clock can operate with interrupt levels; however, interrupts occur ONLY if enabled by a user-supplied program. The Persyst CLOCK.COM program does not use any hardware interrupts.

[4] EPROM/CMOS STATIC RAM

The Time Port module offers support for user-installed EPROM or CMOS static RAM. Up to 16 Kbytes can be added to the module using the popular 2716, 2732, 2764, or equivalent EPROMS. Alternatively, TC5516/TC5564 or equivalent CMOS static RAMs may be used by selecting the appropriate jumper configuration.

You may add either the EPROM or CMOS static RAM - BUT not both. The two types of devices may not be mixed on the module. If both sockets (Z2 and Z3) are to be used, the same device type must be used in each socket. If only one socket is used, the device MUST be installed in socket Z2. DO NOT INSTALL A DEVICE IN SOCKET Z3 ONLY.

DEVICE SIZES: Although the sockets on the module are 28-pin sockets, both 28 and 24-pin devices may be used. However, inserting a 24-pin device requires special attention to the placement of the pin 1 end of device. That is, pin 1 of the 24-pin device must be inserted in pin 3 of the 28-pin socket.

JUMPER CONFIGURATION FOR DIFFERENT DEVICE TYPES

E15-E16	TC5516, 2K x 8 CMOS static RAM
E4-E8	Supplies (1) READ/WRITE signal to pin 21 of device and (2) battery supply to pin 24 of device
E2-E6	TC5564, 8K x 8 CMOS static RAM
E9-E11	Supplies (1)READ/WRITE signal to pin 27 of device; (2) Address
E17-E18	bit A11 to pin 23 of device and (3) battery supply to pin 28 of device
E3-E7	2716, 2K x 8 EPROM
E13-E14	Supplies +5V to pin 24 and chip enable to pin 21 of device
E3-E7	2732, 4K x 8 EPROM
E17-E18	Supplies +5V to pin 24 and address bit A11 to pin 21 of device
E1-E5	2764, 8K x 8 EPROM
E10-E12	Supplies (1) +5V to pin 28 of device; (2) Chip enable to pin 27
E17-E18	and (3) address bit A11 to pin 23 of device

JUMPER CONFIGURATION FOR DIFFERENT DEVICE SIZES

E21-E24	2K x 8
E20-E23	4K x 8
E19-E22	8K x 8

EPROM/CMOS SWITCH CONFIGURATION

SW1-1	SW1-2	SW1-3	TOTAL SIZE OF EPROM/CMOS				
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ON	ON	ON			2	Kbytes	
ON	ON	OFF			4	Kbytes	
ON	OFF	OFF			8	Kbytes	
OFF	OFF	OFF			16	Kbytes	
SW1-4	SW1-5	SW1-6	SW1-7	SW1-8	START ADDRESS	ADDRESS SPACE	TOTAL SIZE
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ON	ON	OFF	OFF	OFF	C0000H	C0000H-C3FFFH	16 Kbytes
ON	OFF	OFF	OFF	OFF	D0000H	D0000H-D3FFFH	16 Kbytes
OFF	ON	OFF	OFF	OFF	E0000H	E0000H-E3FFFH	16 Kbytes
ON	ON	ON	OFF	OFF	C0000H	C0000H-C1FFFH	8 Kbytes
ON	ON	OFF	OFF	OFF	C2000H	C2000H-C3FFFH	8 Kbytes
ON	OFF	ON	OFF	OFF	D0000H	D0000H-D1FFFH	8 Kbytes

ON	ON	OFF	OFF	OFF	C0000H-C1FFFH	C2000H-C201FH	16 Kbytes
ON	OFF	OFF	OFF	OFF	D0000H-D1FFFH	D2000H-D201FH	16 Kbytes
OFF	ON	OFF	OFF	OFF	E0000H-E1FFFH	E2000H-E201FH	16 Kbytes
ON	ON	ON	OFF	OFF	C0000H-C0FFFH	C1000H-C101FH	8 Kbytes
ON	ON	OFF	OFF	OFF	C2000H-C2FFFH	C3000H-C301FH	8 Kbytes
ON	OFF	ON	OFF	OFF	D0000H-D0FFFH	D1000H-D101FH	8 Kbytes
ON	OFF	OFF	OFF	OFF	D2000H-D2FFFH	D3000H-D301FH	8 Kbytes
OFF	ON	ON	OFF	OFF	E0000H-E0FFFH	E1000H-E101FH	8 Kbytes
OFF	ON	OFF	OFF	OFF	E2000H-E2FFFH	E3000H-E301FH	8 Kbytes
ON	ON	ON	ON	OFF	C0000H-C07FFH	C0800H-C081FH	2 Kbytes
ON	ON	ON	OFF	OFF	C1000H-C17FFH	C1800H-C181FH	2 Kbytes
ON	ON	OFF	ON	OFF	C2000H-C27FFH	C2800H-C281FH	2 Kbytes
ON	ON	OFF	OFF	OFF	C3000H-C37FFH	C3800H-C381FH	2 Kbytes
ON	OFF	ON	ON	OFF	D0000H-D07FFH	D0800H-D081FH	2 Kbytes
ON	OFF	ON	OFF	OFF	D1000H-D17FFH	D1800H-D181FH	2 Kbytes

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