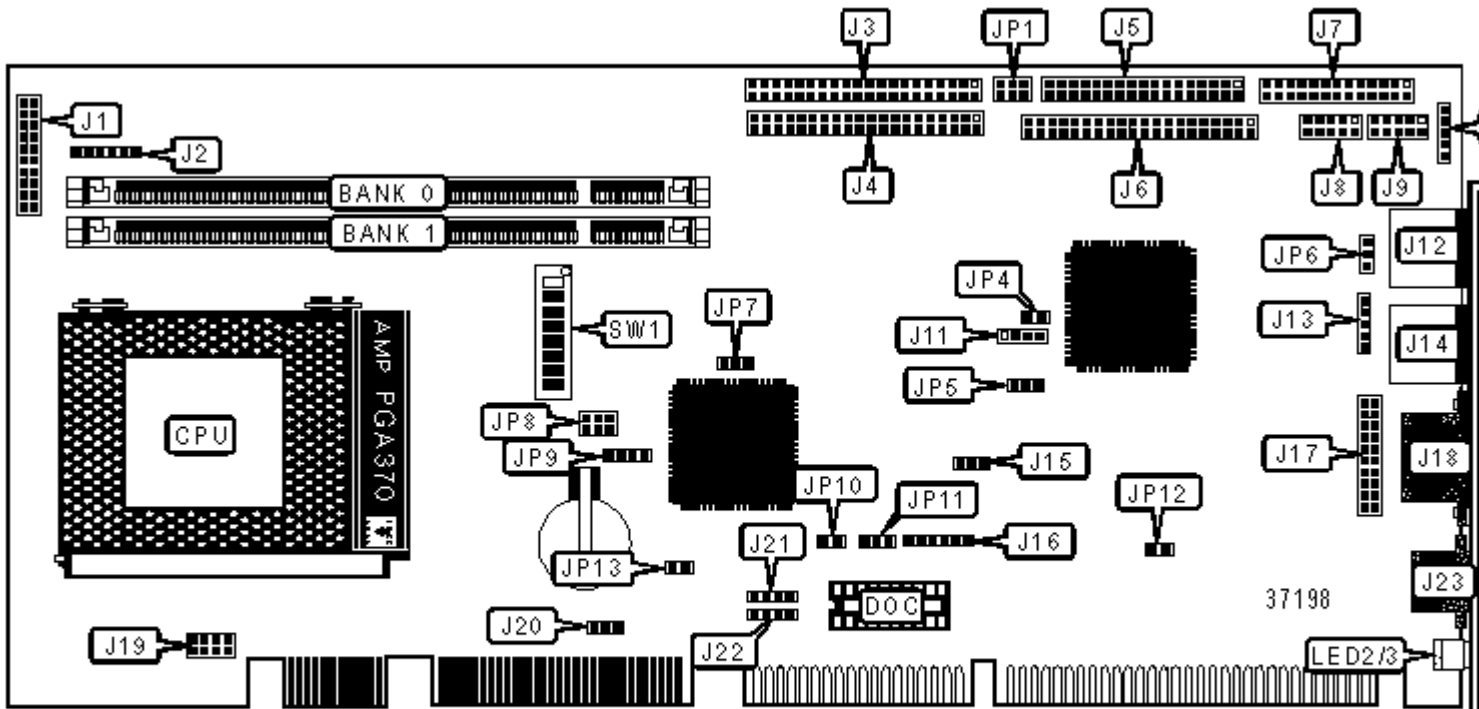


# TMC RESEARCH CORPORATION

C17ZM (VER. 1.0)

<b>Device Type</b>	Single Board Computer
<b>Processor</b>	Celeron
<b>Processor Speed</b>	300/333/366/400/433/466/500Mhz
<b>Chip Set</b>	Intel 440ZX
<b>Video Chip Set</b>	Chips and Technology
<b>Maximum Onboard Memory</b>	512MB (SDRAM supported)
<b>Maximum Video Memory</b>	2MB (SDRAM supported)
<b>Cache</b>	128KB (located on the Celeron CPU)
<b>BIOS</b>	Award
<b>Dimensions</b>	338mm x 122mm
<b>I/O Options</b>	Ethernet 100BaseT connector, Flat panel connector, Floppy drive interface, IDE interfaces (2), IR connector, Parallel port, PS/2 keyboard port, PS/2 mouse port, Serial interfaces (2), SB-Link connector, USB interfaces (2), VGA port, Wake-on-LAN connector
<b>Data Bus</b>	16-bit ISA/32-bit PCI



CONNECTIONS			
Purpose	Location	Purpose	Location
DiskOnChip socket	DOC	Serial interface 2	J9
Speaker	J1/Pins 1 - 4	PS/2 keyboard port	J12
Green PC switch	J1/Pins 6 & 16	PS/2 mouse port	J14

ATX power on switch	J1/Pins 7 & 17	Chassis fan power	J15
Turbo LED	J1/Pins 8 & 18	ATX power interface	J16
Reset switch	J1/Pins 9 & 19	VGA port	J18
IDE interface LED	J1/Pins 10 & 20	Unidentified	J19
Power LED & keylock	J1/Pins 11 - 15	CPU fan power	J20
Keyboard interface	J2	USB interface 1	J21
IDE interface 1	J3	USB interface 2	J22
IDE interface 2	J4	Ethernet 10BaseT connector	J23
Floppy drive interface	J5	IR connector	JP2
Flat Panel connector	J6	Wake-on-LAN connector	JP6
Parallel interface	J7	SB-Link connector	JP8
Serial interface 1	J8		

#### USER CONFIGURABLE SETTINGS

Function		Label	Position
»	LCD power select 5V	JP1	Pins 3 & 5, 4 & 6 closed
	LCD power select 3.3V	JP1	Pins 1 & 3, 2 & 4 closed
	Onboard VGA enabled	JP4	Pins 1 & 2 closed
	Onboard VGA disabled	JP4	Pins 2 & 3 closed
»	DiskOnChip BIOS expansion address D8000-DFFFF	JP5	Pins 2 & 3 closed
	DiskOnChip BIOS expansion address D0000-D7FFF	JP5	Pins 1 & 2 closed
»	CMOS memory normal operation	JP7	Pins 1 & 2 closed
	CMOS memory clear	JP7	Pins 2 & 3 closed
»	Internal battery selected	JP9	Pins 3 & 4 closed
	External battery selected	JP9	Open
	Onboard SCSI enabled	JP10	Closed
	Onboard SCSI disabled	JP10	Open
»	Factory configured - do no alter	JP11	Unidentified

»	Factory configured - do no alter	JP13	Unidentified
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<b>DIMM CONFIGURATION</b>		
<b>Size</b>	<b>Bank 0</b>	<b>Bank 1</b>
8MB	(1) 1M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
16MB	(1) 2M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64
32MB	(1) 4M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64
64MB	(1) 8M x 64	None
72MB	(1) 8M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64
128MB	(1) 16M x 64	None
136MB	(1) 16M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64
256MB	(1) 32M x 64	None
264MB	(1) 32M x 64	(1) 1M x 64
272MB	(1) 32M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64
320MB	(1) 32M x 64	(1) 8M x 64

384MB	(1) 32M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 32M x 64
Note: Board supports SDRAM memory.		

### CACHE CONFIGURATION

Note: 128KB cache is located on the Celeron 300A and greater CPUs.

### CPU SPEED SELECTION

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
300MHz	66MHz	4.5x	Off	Off	On	Off	Off	On	Off	On
333MHz	66MHz	5x	Off	Off	On	Off	Off	Off	On	On
366MHz	66MHz	5.5x	Off	Off	On	Off	Off	Off	Off	On
400MHz	66MHz	6x	Off	Off	On	Off	On	On	On	Off
433MHz	66MHz	6.5x	Off	Off	On	Off	On	On	Off	Off
466MHz	66MHz	7x	Off	Off	On	Off	On	Off	On	Off
500MHz	66MHz	7.5x	Off	Off	On	Off	On	Off	Off	Off

### SERIAL PORT 1 PROTOCOL SELECTION

Note: COM1 is used for RS-232 only.

### SERIAL PORT 2 PROTOCOL SELECTION

Protocol	J17
RS-232	Open
RS-422	Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8, 11 & 12, 15 & 16, 17 & 18, 19 & 20, 23 & 24 closed
RS-485	Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8, 9 & 10, 11 & 12, 13 & 14, 15 & 16, 17 & 18, 19 & 20, 21 & 22 closed

### DIAGNOSTIC LEDES

LED	Color	Status	Condition
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LED2	Yellow	On	Data is being transfered/received
LED2	Yellow	Off	Data is not being transfered/received
LED3	Green	On	Network connection is good
LED3	Green	Off	Network connection is broken