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UM6845R CRT Controller

FEATURES

- Single +5 Volt (±5%) Power Supply.
- Alphanumeric and Limited Graphics Capabilities.
- Fully Programmable Display (Rows, Columns, Blanking, etc.).
- Interlaced or Non-interlaced Scan.
- 50/60 Hz Operation.
- Fully Programmable Cursor.
- External Light Pen Capability.
- Capable of Addressing up to 16K Character Video Display RAM.
- No DMA Required.
- Compatible with MC6845R.
- Straight-binary Addressing for Video Display RAM.

PIN CONFIGURATION

D

			_				
GND		1			40		VSYNC
RES		2			39		HSYNC
LPEN		3			38		RAO
CC0/MA0		4		-1	37		RA1
CC1/MA1		5			36		RA2
CC2/MA2		6			35	Þ	RA3
CC3/MA3		7 .	÷.	1 L F	34	Þ	RA4
CC4/MA4		8		~	33	Þ	DB0
CC5/MA5		9		Ξ	32	Þ	DB1
CC6/MA6		10		M6845R	31	Þ	DB2
CC7/MA7		1.1		\$	30	Þ	DB3
CRO/MA8		12		2	29	Þ	DB4
CR1/MA9		13	¹		28	Þ	DB5
CR2/MA10		14			.27	Þ	DB6
CR3/MA11		15	÷.,		26	Þ	DB7
CR4/MA12		16	4		25	Þ	<u>cs</u>
CR5/MA13		17			24	Þ	RŞ -
SPLAY ENABLE		18	1. E. E.		23	Þ	Ē
CURSOR		19			22	Þ	R/₩
v _{cc}	Ľ	20	•		21	P	CCLK

UM6845E CRT Controller

FEATURES

- Single +5 Volt (±5%) Power Supply.
- Alphanumeric and Limited Graphics Capabilities.
- Fully Programmable Display (Rows, Columns, Blanking, etc.).
- Interlaced or Non-interlaced Scan.
- 50/60 Hz Operation.
- Fully Programmable Cursor.
- External Light Pen Capability.
- Capable of Addressing up to 16K Character Video Display RAM.
- No DMA Required.
- Pin-compatible with MC6845R.
- Row/Column or Straight-binary Addressing for Video Display RAM.
- Video Display RAM May be Configured as Part of Microprocessor Memory Field or Independently Slaved to UM6845.
- Internal Status Register.
- 3.7 MHz Character Clock.
- Transparent Address Mode.

PIN CONFIGURATION

GND	Ч	1				40	Ь	VSYNC	
RES	3	2	an an San San			39	þ	HSYNC	
LPEN	d	3				38		RAO	
CCO/MA0	Ь	4		1		37		RA1	
CC1/MA1	d	5	5.		$\{ e_{i,j} \}$	36		RA2	
CC2/MA2	러	6				35	Þ	RA3	
CC3/MA3	ㅂ	7	-			34	Þ	RA4/STB	
CC4/MA4	너	8	en sta Gi Sila	_	· .	33	Þ	DBO	
CC5/MA5		9		S.		32	Þ	DB1	
CC6/MA6		10	÷.,	ฐ		31	Þ	DB2	
CC7/MA7		11	÷.	4		30	Þ.	DB3	
CRO/MA8	디	12		m	· .	29	Þ	DB4	
CR1/MA9	口	13		C., 1	din .	28	Þ	DB5	
CR2/MA10	Ц	14				27	Þ	DB6	
CR3/MA11	Ц	15			1.50	26	P	DB7	
CR4/MA12		16		el des		25	P	ĊŚ	
CR5/MA13		17-			et t	24	P	RS	
PLAY ENABLE		18	ulet j Alton			23	P	E	
CURSOR		19				22	P	R/W	
v _{cc}		20			1.2	21	Р	CCLK	
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