Disday	: 16 × 2 LCD Module
RAM	: 64 KB (62256 * 2)
ERROM	: 64 KB (27256 +2)
10 lines	: 48 lines (8255 *2)
Timer / Launta	: 8253
Interrupt controller	: 8259
5 mkerlace	: UART (8251)
BUS	: Address, data and control lines
	(TTL compatible)
Power	: 5V 800mA
Equating temp	: 0-50°C
MEMORY MAPPING	
видат тетогу	
Rom : 8000: 0000H -	8000: FFFF H
RAM : 0000:0000H -	
NOTE: User can ente	a their program from location 04004 to FFFFH.
Peripheral	
10 MAPPING	
	OH, PORTB: 42H, PORTC: 44H, CONTROL WORD: 461
8255-2 3 RETA : G	OH , PORTB: 624, PORTC: 644, CONTROL WORD: 661
	AOH, CONTROL WORD & A2H
8253 TIMERO	CON TIMERISCEN TIMERES CAN CONTROL WOR

	MENU COMMANDS
	Command; A, B, D, E, F, G, M, R, S
	9 T
	A - consemble (Inline assembles generates code cossesponding to 8086
	coode set)
	B - Block Mare
	D - Dissassemble
	F - Till data
	G - Go and Execute
	M - Modify / View memory
	E - Edit / View memory (8 butes at the same dime)
	R - Register view/ædit (Values ok last break of single step)
	s - Single slep
	T - View/ redit Break point (Dress enter to anable break point and
	backspace for disable break point)
	Note - Enter key to continue/accept the data for reach command.
	MENU 'A': ASSEMBLE
	Esser can center the assembly danguage directly in to the kit, assembles will assemble the 8086 instruction in machine code.
	When assemble option is chosen by gressing letter 'A', on 18m keyboard,
	display will show like
	ASSEMBLER
	ENTER START ADDR;
_	offer entering desired starting address press 'ENTER' key on the keyboard
	The system will show a text address screen. Enter a walid assembly
	instruction in this window. offer centry press "ENTER" ragain.

	G: GIO/EXECUTE
	This command in used to perform execution of program.
	Gelect G? for execution
	The display will show
	Execute
	Enter starting adds
	Now enter the starting address of the grogeam and press 'ENTER' again.
	The display will show:
	Execuling
	MENU "M" MODIFY / VIEW MEMORY
	In this mode, wer can view the memory contents directly. Select this option by grossing on key, the display will show
	Modify Memory
	Modify Memory Enter Starting Adds:
	Then Enter Starting Address and hit "ENTER" then the screen will be:
	Modify Memory
	400:00
_	Earter the new MEX dealure wasing 0-9 keys for number and A-F keys
	The data keys. Used need to center only lower digit of the data
	Press ENTER to increment / accept the data and "Backspace" to
-	Teacher's Signature

Cress 'Esc' to exit from this mode.

Addition of a 16-bit numbers

cdim

Expt. No. _

To jestorm caddition of two 16 bit numbers curing 8086 teamer kit

Program

Address	Instruction	Temment
0400	mov [0500], 90	move ac to location 500
0405	mov [0501], F3	more F3 to location 501
040A	mov [0550] , BD	move BD to location 550
040F	MOV [0551] . A1	move A1 to location 551
0414	mov 8x , 0600	
0417	mov 51, 0500	
0414	MOV DI , 0550	
0410	MOV AX, [SI]	move contents of [SI] to Ax
0416	ADD AX, [DI]	adde contents of CDIJ to AX
0 421	MOV (BX), AX	move result to [BX]
0423	MOV SI, 0000	
0426	JNC 042C	
0428	ADD \$1,01	
04 2 C	mov [0602], si	store carry it am in 600
0430	HLT	location

Rogult

Performed the addition of two 16 bit numbers using 8086 trainer kit

Output

Addies	Data
0600	59
0601	95
0602	01

Muhtraction of 2 16-bit numbers

dim

To preform subtraction of two 16 bit numbers using 8086 dearner kit

Rasam

Address	Instruction	Comment
0400	mov (05001, 30	move 30 to location 500
0405	mov [0501], 8F	move BF to location 501
040A	mou [0550], 9A	more 9A to location 550
0405	mou [0551],30	move 30 to location 551
0414	Mou Bx, 0600	
0419	MOV 51,0500	
DAIA	MOV PI , 0550	
0410	MOV AX, [SI]	move contents of [51] to Ax
04 IF	SUB AX, CDI]	Subtract contents of [DI] from AX
0421	JNC 0427	jump to 0427 if carry a not set
0423	MOU AX, [DI]	Else, more contents of Dijtors
0425	SUB AX, [51]	subtract contends of [s] from *
04-27	MOU [BX], AX	move result in Ax to [BX]
0429	HLT	

Result

Ducersfully performed the subtraction of 2 x-bit numbers.



Dulpat

Address	Data
0600	A2
0601	5E