Product Name : Microcontrollers	Product Code: 8086
Description :	
Microcontrollers - The trainer system should permit students of digital electronics to make sufficient use of variable laboratory and to make program of same module (For example: Traffic Light, elevator, stepper motor module, etc.) Simple data and function entry should be provided by keys pad, 6 digits, 7 segments display for data and addresses	
a. The trainer should have the following requirements:	
Works with either 8086/8088 CPU	
<ul> <li>Operates with on-board keypad or with a PC compatible system through a RS 232 C interface.</li> </ul>	
Provision for on-board 8087 (NDP)	
Powerful system monitor that permits:	
atry of program.	
ebugging through break point	
struction step facilities.	

- Built-in one line assembler/disassembler
- Include with Centronics Printer Driver
- Provision for easy system expansion.
- Provision for battery backup to RAM.
- Could support variety of interface modules including EPROM Programmer.
- b. The trainer should have the following specifications:
- 1. Central processor: 8086/8088 CPU at approx. 8 MHz in Max. mode
- 2. Memory:
- EPROM: 4 JEDEC sockets provide:

128K bytes using 27256s (32K x 4)

256K bytes using 27512s (64K x 4)

RAM: 4 JEDEC sockets provide:

128K bytes using 62256s (32K x 4)

3. Peripherals &

Controllers: 8251A; 8253-5; 8255A; 8259A; 8288

4. Interrupts
• External: NMI for keyboard. INTR controlled through 8259A, on-board Interrupt Controller.
• Internal: Interrupt Vectors 1 (single step) & 3 (break point) reserved for monitor.
5. Interface signals
• CPU Bus: Should be demultiplexed and fully buffered, TTL compatible, Address, Data & Control signals should be available on two 50 pin ribbon cable connectors.
• Parallel I/O: 48 programmable parallel I/O lines (TTL Compatible) through two 26 pin ribbon cable connectors.
• Serial I/O: RS 232 C
• Timer signals: Timer 1 & Timer 2 signals should be brought out to Berg Pins.
c. Accessories:
User manuals with schematics to be provided during bidding process.

• Ke	yboard Monitor Program Listing.
• 808	36 Assembly Language Reference Card.
	Technical Specification :
	Microcontrollers

## **Naugra Export**

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