Product Name :	**Product Code :**
Embedded Trainer for Microchip PIC 16F84 for Vocational Training and Didactic Labs	NPLT-EC041

Description :

Equipment for Education, Engineering and Vocational Training - Embedded Trainer has been designed by using Microchip PIC16F84 Microcontroller. This controller provides in-system as well as in circuit programming so that one may be able to write program and download directly in the controller through serial port without removing it from the system.
CPU: Microchip PIC16F84 Microcontroller
16x2 LCD module ? Six Seven Segment Displays
8x8 LED Matrix Display ? EWSN Status LED's 12 Nos.
ADC/DAC Interface ? Four Data Switches
Switch Array ? At24C16 Serial EEPROM
Stepper Motor Controller Interface
Only 35 single word instructions to learn
All instructions single cycle except for program branches which are two-cycle
Operating speed: DC - 20 MHz clock input , DC - 200 ns instruction cycle
1024 words of program memory
68 bytes of data RAM ? 64 bytes of data EEPROM
8-bit wide data bytes ? 14-bit wide instruction words
15 special function hardware registers
Eight-level deep hardware stack
Direct, indirect and relative addressing modes
Four interrupt sources:
External RB0/INT pin
TMR0 timer overflow
PORTB interrupt on change
Data EEPROM write complete
13 I/O pins with individual direction control
High current sink/source for direct LED drive
25 mA sink max. per pin
25 mA source max. per pin
TMR0: 8-bit timer/counter with 8-bit programmable prescaler

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