

College of Engineering, kallooppara


TENDER No: 01/2019-2018

Items Required

Embedded Sysyko Lab

| Sl.No | Item with Specification | Qty |
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| 1. | <p>8051 Microcontroller Development board with accessories</p> <p>ON-CHIP Features: NXP 89C51 CPU, 40MHz @ 6 clock mode. Memory: On Chip Flash - 64KB, on chip RAM - 1KB Program / Data memory Expandable up to 64KB Eight interrupt sources Four 8 - bit I/O Ports Full - duplex enhanced UART Programmable Counter Array (PCA) ON-BOARD Features: NXP 89C51 CPU External 64KB of RAM, External 32 KB of EPROM Two - Seven segment Display interface Glue Logic generation for Memory Mapping Devices 8 Bit Digital output, 8 Bit Digital Input. I2C Based Real Time Clock I2C Based 8 Bit ADC / DAC MOC 7811 Sensor Interface 16 x 2 Character LCD Interface On Board Signal Conditioner for Temperature Sensor interface On Board Stepper Motor Driver On Board Battery Backup for RAM and RTC Elevator Simulation -Thumb Wheel Switch & Micro Switches Chip Selections and Data lines terminated at another 50 Pin Header (Memory Mapping Devices) CPU Lines terminated at one 50 Pin Header (IO Memory) Accessories: RS232 cable with ISP Utility Software to download programs from PC to target card. User/Reference Manual Warranty: 1 year or above</p> | 5 |
| 2. | <p>8051Microcontroller trainer kit</p> <p>Processor:* 8051 / 89C51 Microcontroller, 12MHz Clock speed Memory:Program Memory RAM - 32KB Data Memory RAM - 32KB Program Memory EPROM - 32KB Peripherals: KEYBOARD AND DISPLAY: 16x2 LCD Display IBM PC Keyboard is provided and also reset and interrupt keys are provided (RRE Key) Parallel i/o bus expansion: One no. of 8255 connections are terminated in one 26-pin FRC header (24 I/O lines) One VXT-Bus (50 pin FRC connector) for interfacing VBMB series of experiment board and bus expansion Microcontroller port lines are terminated with one 40-pin FRC header DIGITAL I/O:* On board 8-digital inputs can be given through 8-Way dip switch * On board 8-digit outputs can be visible through SMD LEDs * The port lines PI used as input (switch) or output LED (selectable hardware) SPECIAL FEATURES: * Software single stepping of user programming by instruction for software debugging (at same time user interrupt is not access) * Housed in a sleek plastic cabinet. SERIAL PORT:On chip serial port will be terminated in 9pin D Male connector BUILT-IN POWER SUPPLY (MULTIS 31000OUTPUT) :Input : 230V ACOutput: +5V/3A, +12V/0.5A Battery backup:1 No. of 3V lithium battery / 3.6V NICD Battery, DOCUMENTATION SUPPORT:E manual provide in CD Warranty: 1 year or above</p> | 5 |
| 3. | <p>Scanner</p> <p>Scanner Type: Flatbed Scanning Method: CIS (Contact Image Sensor) Light Source:3-colour (RGB) LED Optical Resolution: min 4800 x 4800dpi Selectable Resolution:25 - 19200dpi Document size:A4,Letter</p> | 1 |

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| 4. | Wireless USB Power Point Presenter Red laser pointer .- Laser ON/OFF - Page Scroll UP - Page Scroll Down .Laser Class: Class II • Frequency: 433.92MHz • Control Distance: Approx. 15 meters • Working Voltage: 3V Maximum Output Wattage: <1W • Compatability USB Ports: USB 1.1, USB 2.0, USB 3.0 • Operating System Compatibility: Windows 7 or latest , Linux, Android | 1 |
| 5. | Universal programmer & tester Universal Pin Drivers: 48 Pin ZIF socket with universal 48pin-drivers., No adapter required for DIP devices. Computer Interface: USB. Algorithms with machine architecture: Constructed around FPGA to achieve ultra-high programming speed. Programming speed: Programs 89C58 in less than 2 seconds. Over current & over voltage protection. Support Windows OS: WIN9 8 Sp2/NT/2000/ME/XP/ Vista/Win7 32 bit/ Win7 64 bit or higher OS versions . File formats supported: Binary, Intel Hex, Motorola S, Tektronix, formats and auto find format Supports read, blank check, erase, program, secure, verify operations. Set addresses intelligently: Device start address, device end address, from buffer address, etc. Integrated editors: To modify HEX files, JEDEC files with commands - fill, copy, move, swap, etc. Supports most of the compilers for PLD's in JEDEC format: ABEL, CUPL, PALASM, ORCAD PLD, PLD Designer and ISDATA. Supported Devices EPROM / EEPROM/SPROM/MCU/PLD/SRAM/DRAM, etc. Warranty: 1 year or above | 1 |
| 6. | SMD soldering station SMD Soldering and De-soldering Station With accessories suitable for SOIC, QFP, PLCC, BGA, SOJ, etc. with its nozzles, Anti-Static, ESD Safe. Maximum power consumption: 320W Air temperature: 100°C - 480°C or 212°F to 896°F Stand and sponge Digital Display for Temperature and Air Pressure Warranty: 1 year or above | 1 |


Principal