

INTEL GALILEO MICRO CONTROLLER TRAINER MODEL - INTGL100

This trainer has been designed with a view to provide theoretical & practical knowledge of Intel Galileo Micro controller board.



SPECIFICATIONS

1. Hardware

Thaltej,

INDIA.

AHMEDABAD - 380054.

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	2.	Applications Software CD		:	1 No.	
	1.	Controller Driver Software		:	1 No.	
2.	Sof	tware				
		SPI		:	Yes	
	19.	PCIe		:	Yes, PCI Express mini.	
		SD Card		:	Micro SD slot	
		Ethernet (RJ45)		:	10/100 Mbps	
		USB 2.0		:	2 Ports	
		PWM		:	Up to 6	
		Digital I/O		:	14 Digital I/O	
		Analog I/O		:	Up to 6 Analog Inputs	
		DSI		:	Display Serial Interface	
		JTAG		:	10-pin, Mini-JTAG header	
		Status Indication	210 21110		Power LED	
	9.	Support for External USB	2.0 Drive	:	Yes)
	8.	External Storage			Micro-SD Card (up to 32GB)
	7.	EEPROM			11KB	
	6.	FLASH Memory		:	8MB NOR Flash	
	5.	DRAM		:	256MB DRAM	
	4.	RAM		:	512KB on-chip SRAM	
	2. 3.	Real Time Clock		:	Yes	
	2.	Speed		:	400MHz	
	1.	Processor			Intel® Quark X1000 – sing	le core

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3. Accessories

1.	Practical Manual	:	1 No.
2.	Required Cables	:	1 No.
3.	Software and Driver CD	:	1 No.
4.	E-Books for Intel Galileo	:	10 Nos. in PDF Format
5.	Mp4 Video Class for Intel Galileo	:	40 Nos

4. Trainer Board:-

The complete circuit diagram should be is screen printed on component side of the PCB with circuit and Parts at the same place. The true value of component is printed on component side. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair. The testing points are provided with 1.25" tags to connect CRO probe.

5. Note:

One Computer systems (Pentium IV 1.5 GHz, 160GB HD, 128 MB RAM) with Windows-7 is required to operate this trainer.

EXPERIMENTS

- 1. Software and hardware configuration for Intel Galileo board.
- 2. To Write a program to blink on board LED.
- 3. To Write a program to take input form switch and blink LED.
- 4. To Display "Hello world" on 16* 2 alphanumeric LCD
- 5. To make moving Message Display on 16* 2 alphanumeric LCD.
- 6. To Write a program to interface DHT11 sensor to implement one wire protocol.
- 7. To Write a program to interface Flame sensor.
- 8. To Write a program to interface IR object sensor.
- 9. To Write a program to interface Ambient light sensor using
- 10. To Write a program to blink led using PWM module.
- 11. To Write a program to interface Ultrasonic distance measurement sensor.
- 12. To Write a program to interface real time clock (RTC) using I2C protocol.
- 13. To Write a program to interface 3 axis accelerometer module using SPI protocol.
- 14. To Write a program for external interrupt, to blink LED.
- 15. To Write a program to send data serially using UART.
- 16. To Write a program to receive data serially using UART.
- 17. To Write a program to send and receive data using UART.
- 18. To Write a program to write data into internal EEPROM.
- 19. To Write a program to read and To Write back data into internal EEPROM.
- 20. Intel Galileo at Application approach To Write an application to display temperature and humidity data on LCD and send data over serial port.