

AcenAAR Technologies Pvt. Ltd.

The official AcenAAR Technologies 2021
Internet of Things (IoT) trainer kit's Guide

Welcome

The present era is stirring towards INDUSTRY 4.0 which paved new opportunities for technocrats. IoT technology has made mandate for very huge skillful manpower in present scenario. And it is occupying omni fields like home automation, transport, agriculture and whatnot. Seeing the dire need of technology many educational institutions in India and abroad are introducing IoT technology courses both in theory and practice. In this manual we are presenting programming procedure for resourceful unequivocally designed IoT trainer kit. Special care is taken to keep instruction simple and clear and yet cover utilization of all resources available in the kit. At the end of the laboratory, students will acquaint with kit and have confidence to develop the IoT programs.



Call for Quotation



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Technical specifications of IoT Kits

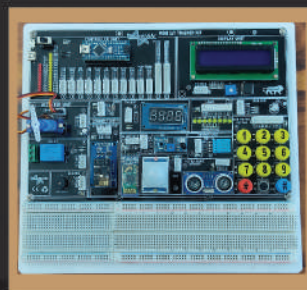
S.No	Name of unit	Particulars of devices	Combo	Model - B	Model - A
1	SENSOR UNIT	1. Ultrasonic sensor	✓	✓	✓
		2. PIR sensor	✓	✓	✓
		3. DHT temperature and Humidity sensor	✓	✓	✓
		4. IR sensor	✓	✓	✓
		5. LDR sensor	✓	✓	✓
		6. Key board	✓	✓	✓
		7. MQ-135 air quality sensor	✓	✓	✓
		8. TDS water meter	✓	✓	✓
		9. Joystick sensor	✓	✗	✗
		10. Color sensor	✓	✗	✗
2	ACTUATORS UNIT	11. Servo Motor	✓	✓	✓
		12. Two Relays	✓	✓	✓
		13. Buzzer	✓	✓	✓
		14. Stepper Motor	✓	✗	✗
3	DISPLAY UNIT	15. LCD	✓	✓	✓
		16. Seven Segment	✓	✓	✓
		17. LEDs	✓	✓	✓
		18. RGB LED	✓	✓	✓
		19. Traffic Signals Display	✓	✗	✗
4	WIRELESS CONNECTIVITY UNIT	20. ESP8266 wi-fi module	✓	✓	✓
		21. Bluetooth module	✓	✓	✓
		22. RFID Reader	✓	✗	✗
5	CONTROL UNIT	23. Arduino Nano with extended connectors	✓	✓	✓
		24. Raspberry pi -4 with 2GB RAM with extended connectors	✗	✓	✗
		25. Raspberry Pi -400 single board computer with extended connectors	✓	✗	✗
6	MISCELLANEOUS	26. 400 Points Solderless Breadboard	✓	✓	✓



Combo



Model - B



Model - A

Highlights of the kits

1. Customized IoT trainer kit for JNTUA
2. 200 + experiments
3. Well developed manual.
4. Ease of operation
5. Stand alone System
6. Mini projects
7. Major projects