

RFID TRAINING SYSTEM (GOTT IOT CLOUD READY)

Model Number : GOTT-RFIDTS-01



DESCRIPTION

GOTT RFID Training System is designed to enable teachers and students to learn simple and complicated experiments (relating with RFID), which are close to life. By performing these experiments, students can clearly know the principles behind some common phenomena and apply them well. There is 2 optional for main control board, whether we choose using Arduino (GOTT-RFIDTS-01) or Raspberry PI (GOTT-RFIDTS-02) . For instance, you may make your own password lock and entrance card system after learning the corresponding lessons. Besides, students can explore more experiments by themselves to strengthen the basics that they have learnt.

FEATURES

- GOTT-RFIDTS-01 includes an RFID module and many basic components, modules , for you to learn Arduino and electronic basics
- Include High Quality UNO R3 Controller Board and Sensors, 100% compatible with Arduino UNO R3, Arduino kit.
- Arduino lot lcloud ready

PRODUCT MODULES

LED MODULE	CODE 400-202	STEPPER MOTOR	CODE 400-230	STEPPER MOTOR DRIVER	CODE 400-231	74HC595	CODE 400-232
3 kind color of LED, 4 pcs LED Yellow, Green, and Red		The stepper motor is a four-phase one, which uses a unipolarity DC power supply		A stepper motor driver board to drive the stepper motor.		The 74HC595 consists of an 8-bit shift register and a storage register with three-state parallel outputs (2 pcs)	
7 SEGMENT DISPLAY	CODE 400-203	12C LCD 1602	CODE 400-204	4 DIGIT 7 SEGMENT DISPLAY	CODE 400-205	IR RECEIVER	CODE 400-206
1 Digit Seven Segment Display Common Cathode)		12C LCD 1602 Display, Operating voltages used are +5 V or +3.3 V		4 Digit Seven Segment Display		An IR receiver is a component which receives infrared signals	
PHOTO RESISTOR	CODE 400-223	TEMPERATURE SENSOR LM35	CODE 400-224	ACTIVE BUZZER	CODE 400-225	PASSIVE BUZZER	CODE 400-226
A photoresistor module of which the resistance decreases with increasing incident light intensity		Use LM 35 as a temperature sensor		Produces sound once connect to power, with power light and indicator of digital signal output.		A passive buzzer that needs square signals of 2k-5k to drive	

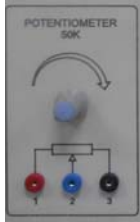

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RFID MODULE	CODE 400-207	RESISTOR 220 OHM	CODE 400-208	8 x 8 DOT MATRIX	CODE 400-209	RESISTOR	CODE 400-210
Power Voltage : 3.3V, Operating frequency: 13.56MHz.		8pcs of Resistor 220 ohm 		8 x 8 Dot Matrix 		2pcs of Resistor 1K Ohm and 2 pcs of Resistor 10K ohm 	
4x 4 KEYPAD	CODE 400-211	REMOTE CONTROL	CODE 400-212	JOYSTICK PS2	CODE 400-213	HUMITURE SENSOR	CODE 400-214
4x4 matrix keypad module with up to 16 keys. 		infrared remote control as infrared transmission. 		2 lines of analog output (X, Y) and 1 of digital output (Z). 		To test temperature and humidity, which uses the sensor DHT11. 	
RGB LED	CODE 400-215	VIBRATION SWITCH	CODE 400-216	PUSH BUTTON SWITCH	CODE 400-217	TILT SWITCH	CODE 400-218
Full color common anode RGB LED 		Induces shock force and transfers the result to a circuit device thus triggering 		4 pcs Push Button Switch 		A tilt switch is to detect an inclination 	
RELAY	CODE 400-219	WATER MEASUREMENT	CODE 400-220	SOUND SENSOR	CODE 400-221	FLAME SENSOR	CODE 400-222
Working voltage: 5v, With power indicator 		Water level sensor is a module that can sense the depth of water 		The sensor receives sound waves & converts them into electrical signal 		Consists of a flame sensor, resistor, capacitor, potentiometer, and comparator LM393 in an IC 	

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REAL TIME CLOCK	CODE 400-227	POTENTIOMETER 50K	CODE 400-228	SERVO MOTOR	CODE 400-229	ARDUINO MAIN CONTROL BOARD (OPTIONAL ITEM)	CODE 400-201
Operating voltage: 4.5V to 5.5, RTC Chip DS1307		Potentiometer 50 K		Servo consists of shell, circuit board, non-core motor, gear and location detection		<ul style="list-style-type: none"> • Arduino Uno R3 Microcontroller Board • Digital I/O : 14(6 PWM output) • Power Supply : 3.3vdc and 5vdc • Analog input : 6 	
							
RASPBERRY PI 4 MAIN CONTROL BOARD (OPTIONAL ITEM)	CODE 400-321	EXPERIMENT TOPICS : <ul style="list-style-type: none"> • Controlling LED by Button • Controlling LED by PWM • Interactive LED Flowing Lights • I2C LCD1602 • Buzzer • Tilt-Switch • Answer Machine • Serial Monitor • Photoresistor • Controlling Voice by Light • Voice Sensor • LM35 Temperature Sensor • Water Level Sensor • Segment Display • Stopwatch – 4-Digit 7-Segment Display • Dot-matrix Display • RGB LED • Driving 7-Segment Display by 74HC595 • Button Switch • Clock Module • Humiture Sensor • Relay Module • Stepper Motor • Servo • Joystick PS2 • Infrared-Receiver • RFID Entrance Guard System • Password Lock 					
<ul style="list-style-type: none"> • CPU Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz • 28x user GPIO supporting various interface • Power Supply : 5vdc 3A 							

Manuals :

- (1) All manuals are written in English.
- (2) Model Answer
- (3) Teaching Manuals

General Terms :

- (1) Accessories will be provided where applicable.
- (2) Manuals & Training will be provided where applicable.
- (3) Designs & Specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product

Warranty :

2 Years

ORDERING INFORMATION :

ITEM	MODEL NUMBI	CODE
RFID TRAINING SYSTEM (GOTT IOT CLOUD READY) WITH ARDUINO	GOTT-RFIDTS-01	400-200
RFID TRAINING SYSTEM (GOTT IOT CLOUD READY) WITH RASPBERRY PI	GOTT-RFIDTS-02	400-600

* Proposed design only, subject to changes without any notice