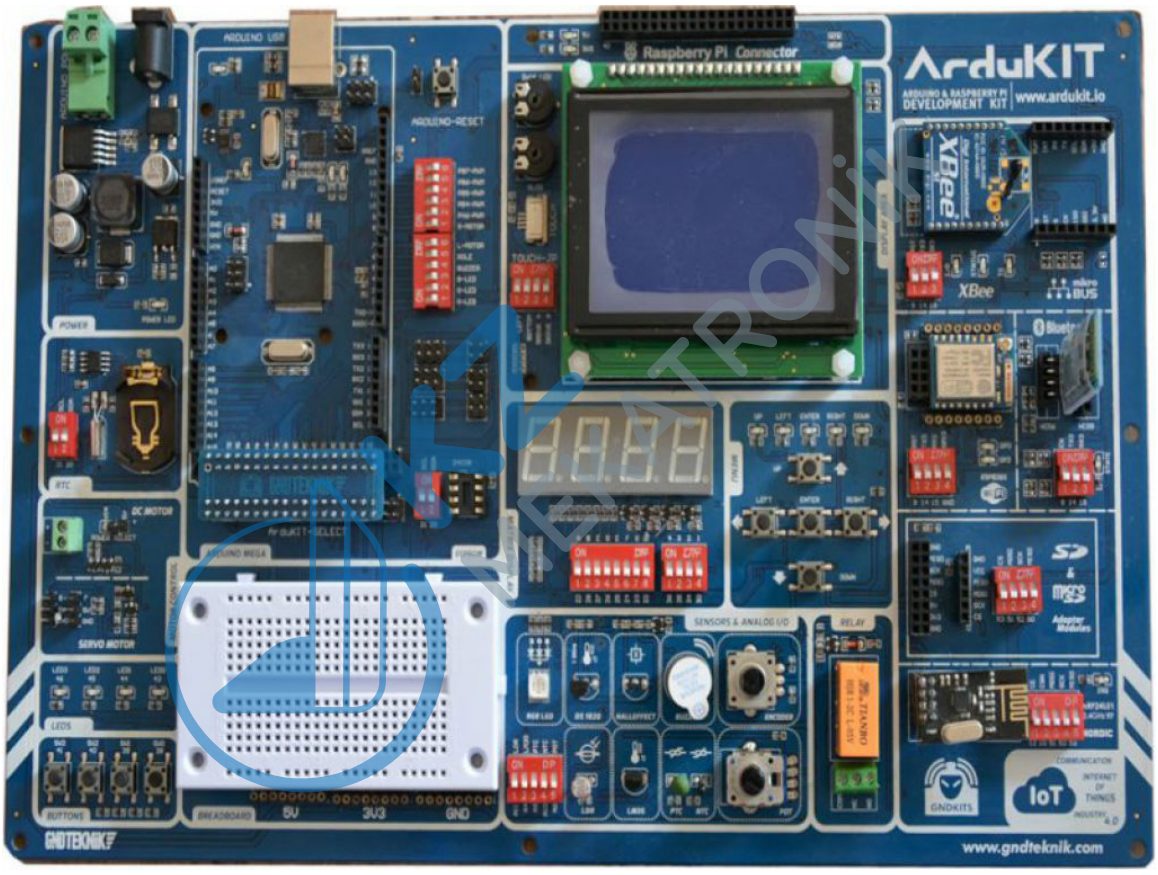
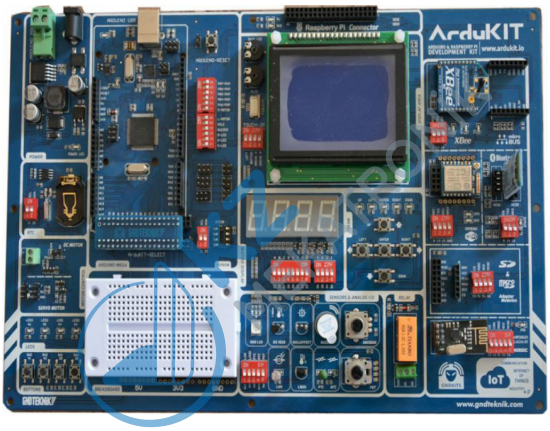
KZ MEKATRONİK

ARDUINO RASPBERRY PI TRAINING SET

ArduKIT is an application development set that is intended for general use from middle schools, high schools, colleges and universities to personal use for recreational purposes. Using the ArduKIT set for your experiments will make you enjoy at once the flexibility of Arduino and Raspberry PI and the practicality of the training set. The fact that the shield necessary for applications is readily available on ArduKIT will make the experimentation process easier for you while also helping to minimize the possibility of losing materials during training in a laboratory setting. The training set allows the user to disconnect the Arduino and Raspberry PI application module from the system by means of a socket connection. Suitable for desktop use, the set features regulation in addition to power supply connection and operates within 9-36VDC input voltage. The set features a breadboard for additional applications. In addition to the integrally provided Arduino MEGA, Raspberry PI can be connected to the training set, and some modules can be operated directly with Raspberry PI. Raspberry PI and Arduino systems can be used synchronously to develop applications at the same time.



TRAINING SET

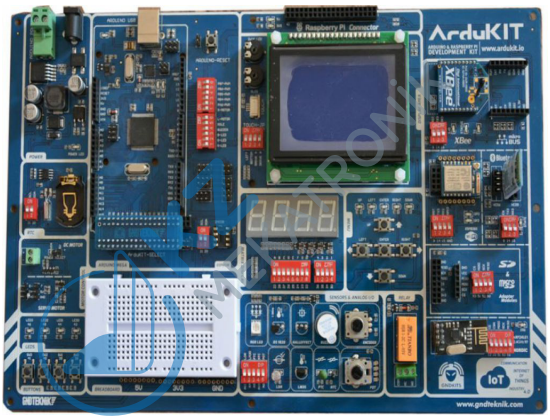


- 9-36VDC Power input – Klemens and socket connection.
- Arduino Mega – Internal
- Arduino shield connection sockets
- Arduino RESET circuit
- External EEPROM circuit and socket for Arduino
- 4 buttons for inputs
- 4 LEDs for outputs
- 5-button Menu for GLCD Graphic and Menu applications
- Direction detection with LED display for Menu applications
- Circuit and socket for DC motor applications
- Adapter circuit and socket for Servo motor applications
- RTC real-time clock DS1307
- 32.768hz crystal for RTC.

TRAINING SET FEATURES

- Battery holder for RTC.
- 4 x 7 Sectional Display for matrix applications.
- 2×16 Character LCD. Adjustable backlight.
- 128×64 Graphic LCD. Adjustable backlight.
- Touchscreen circuit and connector.
- Socket for Color Touchscreen TFT LCD applications.
- LM35 Heat Sensor on the circuit.
- DS1820 Onewire Heat Sensor on the circuit.
- Hall effect – Magnetic sensor on the circuit.
- NTC sensor on the circuit.
- PTC Sensor on the circuit.
- LDR Sensor on the circuit.
- Buzzer on the circuit.
- RGB LED on the circuit.
- Encoder on the circuit.
- Sensor selections can be made with the dip switch.
- 1 0-5V adjustable pod for analog experiments.
- 1 Relay and terminal blocks for outputs.
- Breadboard

TRAINING SET



ArduKIT Training Set

- Industry 4.0 – IoT module.
- WiFi module ESP 8266-01 socket.
- WiFi modül ESP 8266-07 socket.
- BLUETOOTH module HC05 socket.
- BLUETOOTH module HC06 socket.
- rF module Nordic nRF24L01 socket.
- XBee module socket, with select switch direct USB connection
- Microeletronica microBUS module socket.
- microSD card module socket.
- SD card module socket.
- Raspberry PI connection socket.

TRAINING SET FEATURES

Contents Of The Box Supplied With The Set

- Ardukit – ARDUINO VE RASPBERRY PI Training Set
- Ardukit – ARDUINO connection PCB
- Ardukit – RASPBERRY PI connect IDE cable
- USB energy and programming cable.
- Arduino and Raspberry PI experiement book for training.
- Arduino ve Raspberry PI programing and simulation filesı in CD