JOY-PI NOTE

3-in-1 solution: notebook, learning platform and experiment center

The Joy-Pi Note is the new flagship in the Joy-Pi family. With its 11.6“ IPS screen and a detachable, wireless keyboard, it takes the Joy-Pi‘s basic concept in a new, high-quality and attractive format.

With 46 courses and 18 projects, the Joy-Pi Note is not only suitable as an experiment center, but is also ideal for use in the education sector. With over 22 integrated sensors and modules, there are no limits to the user‘s own joy of experimentation. This simplifies the introduction to electrical engineering and programming.

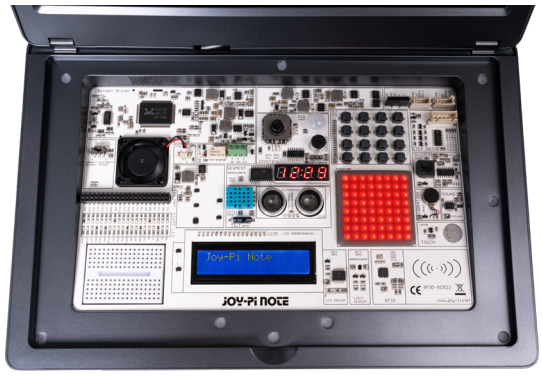
Due to the installed learning platform, which was developed especially for the Joy-Pi Note, the installed units can be operated and learned independently of one‘s own previous knowledge. It is also possible to connect additional sensors and modules via the pins of the Raspberry Pi, which are routed to the outside, and thus also carry out more complex projects.

MAIN FEATURES	
Display	11,6“ 1920x1080 IPS LCD
Camera	2 MP
Special features	Fully equipped set, completely integrated experiment center, pre-installed learning platform, detachable wireless keyboard, integrated compartment for powerbank & accessories
Lessons of the learning platform	46 courses & 18 projects for Python and Scratch
Power supply	12 V hollow plug, 5 V USB
Compatible to	Raspberry Pi 4 4GB and upwards
Dimensions	291 x 190 x 46 mm
Weight	1,3 kg
Items delivered	Joy-Pi Note, accessories, quick guide

INCLUDED SENSORS, MODULES & ACCESSORIES	
Displays	7-segment display, 16x2 LCD module, 8x8 RGB-Matrix
Sensors	DHT temperature & humidity sensor, tilt sensor, motion sensor, sound sensor, touch sensor, RFID module, light sensor, ultrasonic distance sensor
Motors	Servo interface, stepper motor interface, vibration motor

Of course, the Joy-Pi Note can also be used as a „classic“ notebook. All programs compatible with the Raspberry Pi 4 can be installed. The integrated 2MP camera also makes video conferencing possible, for example.

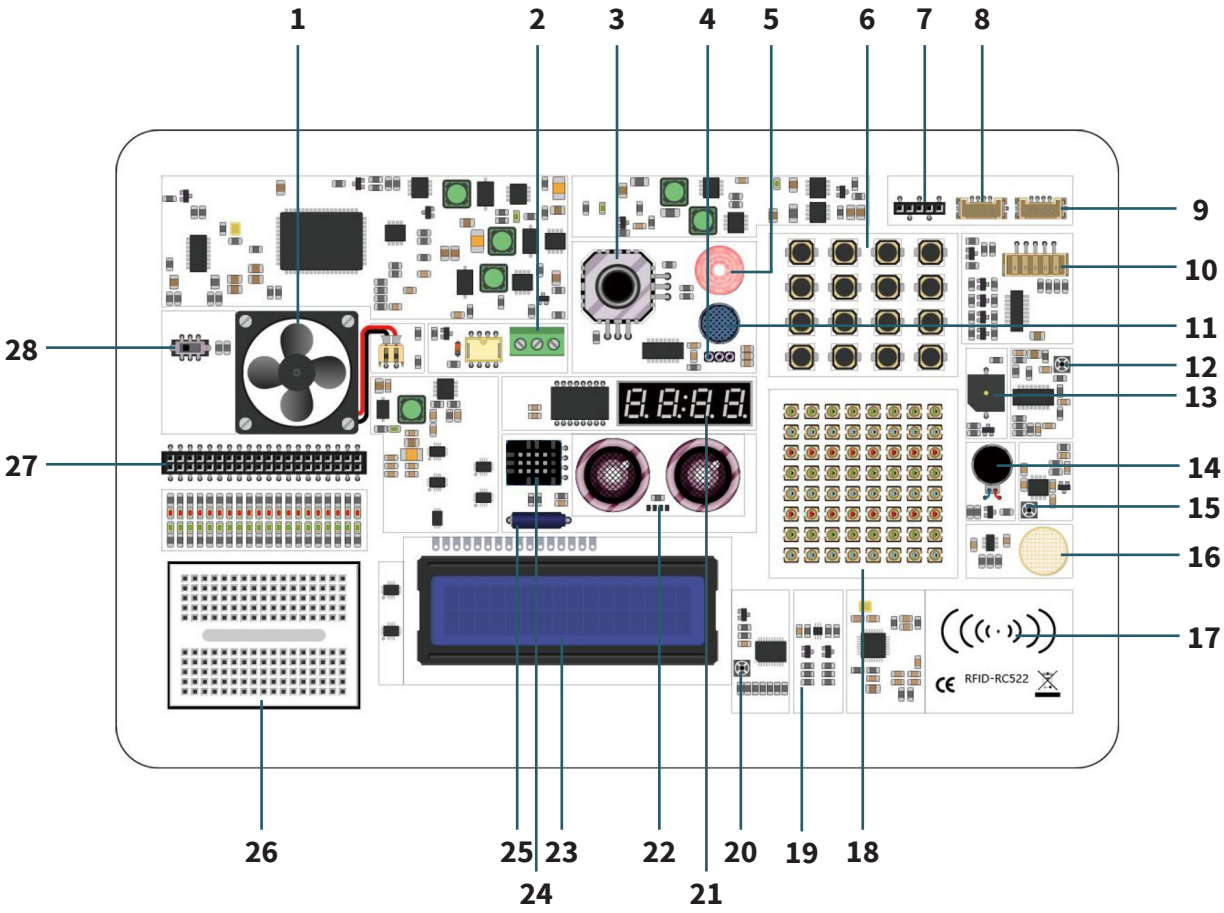
A Raspberry Pi is not included in the scope of delivery. All models of the Raspberry 4 family can be used. On the bottom of the device, you will find a compartment where you can insert a power bank to also operate the Joy-Pi Note mobile.



Control	Joystick, 4x4 button matrix, Raspberry Pi & PCB connection switch, motion sensor, sensitivity controller, sound sensor sensitivity controller, 16x2 LCD module brightness controller
Others	Relay, fan, GPIO extension, GPIO LED indicator, breadboard, IO/ADC/I2C/UART expansion interface, infrared sensor interface, buzzer, display driver
Accessories	RFID chip, RFID card, 12 V power supply, servo motor, stepper motor, infrared receiver, infrared remote control, DC motor with fan attachment, HDMI connector, screwdriver, microSD card (32 GB), SD card reader, electronic accessories, wireless mouse, wireless keyboard

ADDITIONAL DETAILS	
Article No.	RB-JoyPi-Note
EAN	4250236821627
Customs tariff number	8473302000

SCHEMATIC ILLUSTRATION



1	Fan	15	Sound sensor sensitivity controller
2	Relay	16	Touch sensor
3	Joystick	17	RFID module
4	Infrared interface	18	8x8 RGB Matrix
5	PIR motion sensor	19	Light sensor
6	Button matrix	20	LCD module brightness controller
7	Serial interface	21	7-segment display
8	I2C interface	22	Ultrasonic sensor
9	Servo motor connection	23	16x2 LCD-display
10	Stepper motor connection	24	DHT sensor
11	Sound sensor	25	Tilt sensor
12	Motion detector sensitivity controller	26	Breadboard
13	Buzzer	27	GPIO expansion
14	Vibration motor	28	PCB connection switch

INCLUDED PYTHON PROJECTS
„Hello“ - Welcome project
Intruder alarm
Environmental monitoring
Servo-Demo
„NFC Music“ - NFC controlled music box
Tilt display
Distance measurement
Smart light
Ultrasonic music
„RGB Cobra“ game
Stepper motor demo
Remote control
Music box
Box mover game
Memory game
Calculator
PIR video
„Flying bird“ game

INCLUDED PYTHON COURSES
Python3 and GPIO usage
Making a buzzer alarm
Use the vibration module
Use and control the relay
Using the tilt sensor
Controlling the 4 digit segment display
Using the joystick module
Making a circuit using the bread board
Control and move the servo motor
Control the step motor
Powering the 8x8 RGB LED
Detect motion using the PIR sensor
Using the touch sensor
Controlling the LCD display
Using the sound sensor
Detect light using the light sensor
Using the DHT sensor

Using the ultrasonic sensor
RGB LED distance rainbow
Using the IR receiver
Play songs using the IR remote
Using the button matrix
Alarm system
Morse code translator
Using the RC522 RFID module
RFID numbers part 1
RFID numbers part 2
Recording using the microphone
Taking footage using the camera
PIR activated video

INCLUDED SCRATCH COURSES
Know about Scratch
Someone calls
„Noisy monkey“ game
„Shy rabbit“ game
„Blockhead“ game
„Catch the mouse“
„Whac Mole“
Flying cats
Tilt reminder
Intrusion alarm
Automatic fan
Flashing LED
Tilt light
Memory
„Open the safe“
Morse code

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