



```
Board: "ESP32 Dev Module"
Upload Speed: "921600"
CPU Frequency: "240MHz (WiFi/BT)"
Flash Frequency: "80MHz"
Flash Mode: "QIO"
Flash Size: "4MB (32Mb)"
Partition Scheme: "Default 4MB with spiiffs (1.2MB APP/1.5MB SPIFFS)"
Core Debug Level: "Keine"
PSRAM: "Enabled"
```

https://cdn.shopify.com/s/files/1/1509/1638/files/ESP_-_32_NodeMCU_Developmentboard_Datenblatt_a3bf98d8-6a53-4d26-8f1c-c61b1c82af39.pdf?76837

<https://shop.mco.at/esp32-wroom-32-entwicklungsplatine.html>

Einmalige Nutzung der seriellen Schnittstelle, blockiert die Onboard-LEDS

```
byte led=1; // Onboard LED
void setup() {
  // Serial.begin(9600);
  // Serial.println("...");
  // Serial.println("Start");
  // Serial.end();
  delay(1000);
  pinMode(led, OUTPUT);
}

void loop() {
  digitalWrite(led, HIGH); delay(2000);
  digitalWrite(led, LOW); delay(50);
}
```

```
Der Sketch verwendet 261686 Bytes (19%) des Programmspeicherplatzes. Das Maximum sind 1310720 Bytes.
Globale Variablen verwenden 13452 Bytes (4%) des dynamischen Speichers, 314228 Bytes für lokale Variablen verbleiben. Das Maximum sind 327680 Bytes.
esptool.py v3.0-dev
Serial port COM7
Connecting...
Chip is ESP32-D0WDQ6 (revision 1)
Features: WiFi, BT, Dual Core, 240MHz, VRef calibration in efuse, Coding Scheme None
Crystal is 40MHz
MAC: cc:50:e3:99:ae:e8
Uploading stub...
Running stub...
Stub running...
Changing baud rate to 921600
Changed.
Configuring flash size...
Auto-detected Flash size: 4MB
Compressed 8192 bytes to 47...
Writing at 0x0000e000... (100 %)
Wrote 8192 bytes (47 compressed) at 0x0000e000 in 0.0 seconds (effective 6553.6 kbit/s)...
Hash of data verified.
Compressed 18656 bytes to 12053...
Writing at 0x00001000... (100 %)
Wrote 18656 bytes (12053 compressed) at 0x00001000 in 0.1 seconds (effective 1008.4 kbit/s)...
Hash of data verified.
Compressed 261808 bytes to 122398...
Writing at 0x00010000... (12 %)
Writing at 0x00014000... (25 %)
Writing at 0x00018000... (37 %)
Writing at 0x0001c000... (50 %)
Writing at 0x00020000... (62 %)
Writing at 0x00024000... (75 %)
Writing at 0x00028000... (87 %)
Writing at 0x0002c000... (100 %)
Wrote 261808 bytes (122398 compressed) at 0x00010000 in 1.9 seconds (effective 1102.9 kbit/s)...
Hash of data verified.
Compressed 3072 bytes to 128...
Writing at 0x00008000... (100 %)
Wrote 3072 bytes (128 compressed) at 0x00008000 in 0.0 seconds (effective 1890.5 kbit/s)...
Hash of data verified.

Leaving...
Hard resetting via RTS pin...
```