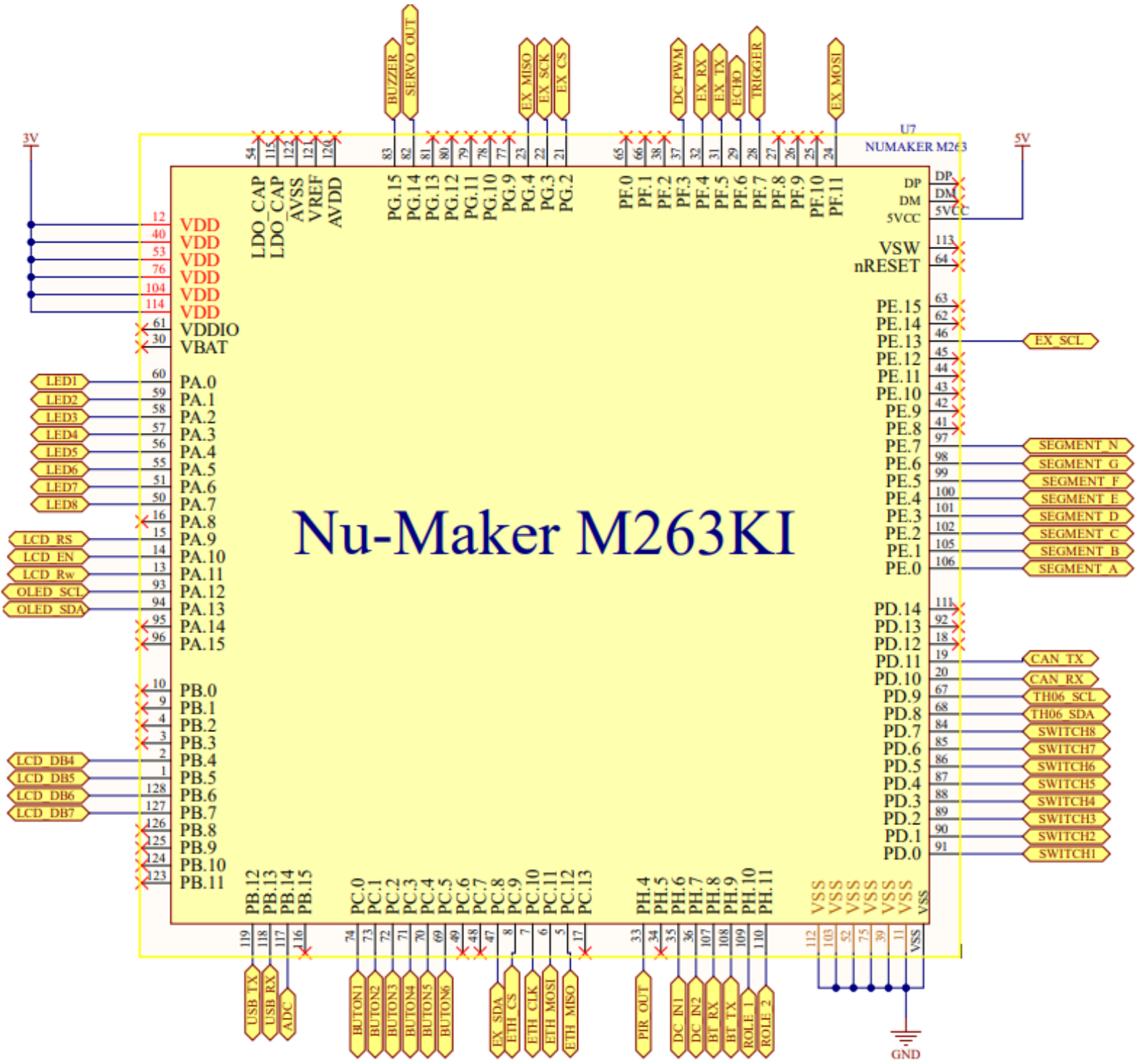

Nu-Maker M263KI
U7
NUMAKER M263
3V
5V
GND
VDD
VDDIO
VBAT
LDO_CAP
AVSS
VREF
AVDD
VSW
nRESET
DP
DM
5VCC
PA.0
PA.1
PA.2
PA.3
PA.4
PA.5
PA.6
PA.7
PA.8
PA.9
PA.10
PA.11
PA.12
PA.13
PA.14
PA.15
PB.0
PB.1
PB.2
PB.3
PB.4
PB.5
PB.6
PB.7
PB.8
PB.9
PB.10
PB.11
PB.12
PB.13
PB.14
PB.15
PC.0
PC.1
PC.2
PC.3
PC.4
PC.5
PC.6
PC.7
PC.8
PC.9
PC.10
PC.11
PC.12
PC.13
PD.14
PD.13
PD.12
PD.11
PD.10
PD.9
PD.8
PD.7
PD.6
PD.5
PD.4
PD.3
PD.2
PD.1
PD.0
PE.15
PE.14
PE.13
PE.12
PE.11
PE.10
PE.9
PE.8
PE.7
PE.6
PE.5
PE.4
PE.3
PE.2
PE.1
PE.0
PF.0
PF.1
PF.2
PF.3
PF.4
PF.5
PF.6
PF.7
PF.8
PF.9
PF.10
PF.11
PG.15
PG.14
PG.13
PG.12
PG.11
PG.10
PG.9
PG.4
PG.3
PG.2
PH.4
PH.5
PH.6
PH.7
PH.8
PH.9
PH.10
PH.11
VSS
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
LCD_RS
LCD_EN
LCD_Rw
OLED_SCL
OLED_SDA
LCD_DB4
LCD_DB5
LCD_DB6
LCD_DB7
BUZZER
SERVO_OUT
EX_MISO
EX_SCK
EX_CS
DC_PWM
EX_RX
EX_TX
ECHO
TRIGGER
EX_MOSI
EX_SCL
SEGMENT_N
SEGMENT_G
SEGMENT_F
SEGMENT_E
SEGMENT_D
SEGMENT_C
SEGMENT_B
SEGMENT_A
CAN_TX
CAN_RX
TH06_SCL
TH06_SDA
SWITCH8
SWITCH7
SWITCH6
SWITCH5
SWITCH4
SWITCH3
SWITCH2
SWITCH1
USB_TX
USB_RX
ADC
BUTON1
BUTON2
BUTON3
BUTON4
BUTON5
BUTON6
EX_SDA
ETH_CS
ETH_CLK
ETH_MOSI
ETH_MISO
PIR_OUT
DC_IN1
DC_IN2
BT_RX
BT_TX
ROLE_1
ROLE_2

Contents

Sensor and Components
1x Nu-Maker M263KIAE
1x LCD Display(16x2)
1x Seven Segment
1x CANBUS Module (CJMCU-230)
1x PIR Sensor (HC-SR501)
1x USB UART (FT232RL)
1x Bluetooth Module (ZS-040)
1x Ethernet Module (ENC28J60)
1x Ultrasonic Distance Sensor Module (HC-SR04)
2x DIP Switch
1x Breadboard
2x Relay (10A 250V Panasonic)
6x Toggle Button
8x Sliding Switch
8x Led
1x OLED (0.96 inch I2C)
1x Temperature Sensor Module (TH08)
1x Buzzer
1x POT (100K)
1x Servo Motor
1x DC Motor

Requirements

-Micro USB(Type-B) cable required for programming

-5V-1A adapter required for run

-Box and cable will not be supplied with the set.

-You can use Keil, IAR or NuEclipse IDEs for programming

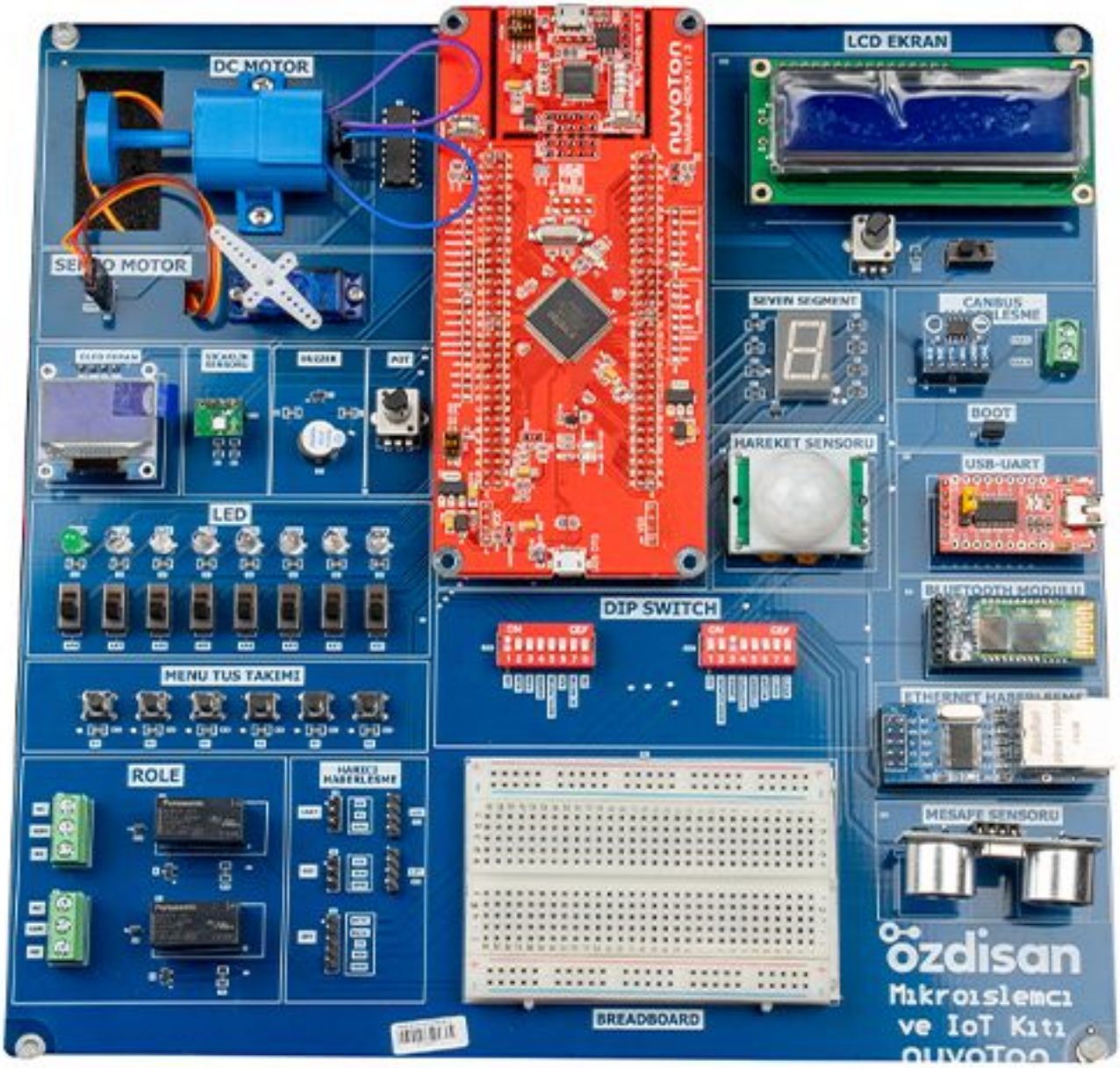
-Pin assignments have been made for the training kit and you can see the assignments in the picture above.

-To run it, simply connect micro usb to the programmer side of the development board. Use the connection on the other side for external operation.

Nuvoton M263

Product Line	Connectivity											Timer	PWM	PDMA	EBI	Analog Comp.	ADC (12-bit)	DAC (12-bit)	Crypto	Tamper	RTC (V_{BAT})
	LPUART	ISO-7816-3	QSPI	SPI/ I^2S	I^2C	I^2S	USCI	CAN	LIN	SDHC	USB OTG										
M261/ M262/ M263	6	3	1	4	3	1	2	1	2	1	1	4	24	16	√	2	16	2	√	6	√

Core And System	
Arm® Cortex®-M23	• Arm® Cortex®-M23 processor, running up to 64 MHz • 64 MHz at 1.8V-3.6V; 48MHz at 1.7V-3.6V Built-in PMSAv8 Memory Protection Unit (MPU) • Built-in Nested Vectored Interrupt Controller (NVIC) • Built-in Embedded Trace Macrocell (ETM) • 32-bit Single-cycle hardware multiplier and 32-bit 17-cycle hardware divider • 24-bit system tick timer • Supports Programmble and maskable interrupt • Supports Low Power Sleep mode by WFI and WFE instructions • Supports single cycle I/O access
Brown-out Detector (BOD)	• Eight-level BOD with brown-out interrupt and reset option (3.0V/2.8V/2.6V/2.4V/2.2V/2.0V/1.8V/1.6V)
Low Voltage Reset (LVR)	• LVR with 1.5V threshold voltage level
Power Manager	• Dual voltage regulator is available for DC-DC converter or LDO • Supports 1.2V and 0.9V core voltage • Supports Power-down mode • Supports Standby Power-down mode • Supports Low Leakage Power-down mode • Supports Ultra-low Leakage Power-down mode • Supports Fast Wake-up Power-down mode • Supports Deep Power-down mode
Security	• 96-bit Unique ID (UID) • 128-bit Unique Customer ID (UCID) • One built-in temperature sensor with 1℃ resolution
Memories	
Boot Loader	• Factory pre-loaded 32 KB mask ROM for trusted boot.
Flash	• Dual bank 512 KB on-chip Application ROM (APROM) for Over-The-Air (OTA) upgrade • 64 MHz maximum frequency, with performance at zero wait cycle in continuous address read access • 4 KB on-chip Flash for user-defined loader (LDROM) • 4 KB non-readble Key Protection ROM (KPROM) for firmware programming protection • Excute Only Memory (XOM) for intelectual property protection • All on-chip Flash support 2 KB page erase


DC MOTOR
LCD EKRAN
SEVEN SEGMENT
BOOT
HAREKET SENSORU
USB-UART
LED
DIP SWITCH
MENU TUS TAKIMI
ROLE
MESAFE SENSORU
BREADBOARD
ozdisan
Mikroislemci
ve IoT Kiti