

Microsoft .NET Micro Framework



Introduction

USBizi Development System is a (2.2 x 2.2 inches) development system that runs .NET Micro Framework. USBizi chipset is a subset of Embedded Master, providing many of the great features Embedded Master has to offer, but on a single chip, no external Flash or RAM! This is the smallest and lowest cost Micro Framework device and still includes GHI unique features, like USB host.

What is .NET Micro Framework?

The Microsoft .NET Micro Framework extends the advantages of .NET and the Microsoft Visual Studio tools to a class of smaller, less expensive, and more resource-constrained devices than the .NET Compact Framework or the standard .NET framework.

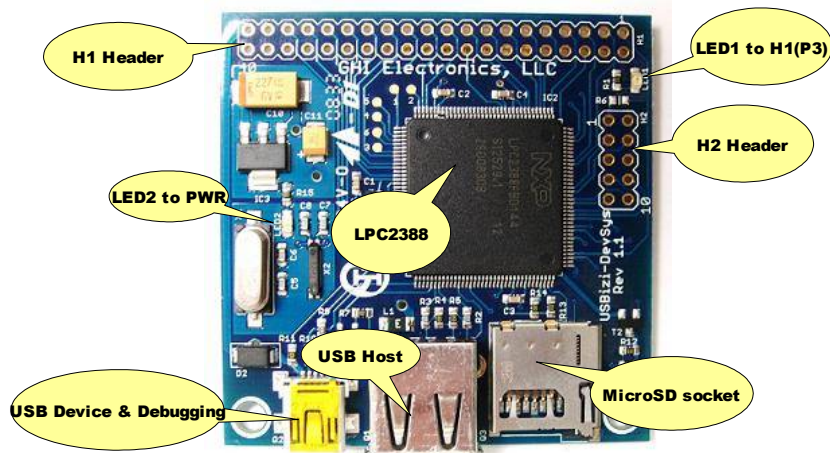
Extended Framework Features

USBizi supports a complete set of .NET Micro Framework features such as FAT, USB device and many more. In addition, it supports many other exclusive GHI features, for example, USB host, CAN, ADC, DAC...etc. With embedded master, you can access files on SD/MMC cards and USB memory devices such as Thumb Drives and Hard Disks. Also, the USB host stack can access other devices like mice, keyboards, joysticks, printers, Bluetooth dongles and more.

Key Features

- .NET Micro Framework V3.0
- 72Mhz 32-bit Processor
- 96KB RAM
- 0.5MB FLASH
- Embedded USB host/device
- 44 GPIO
- 35 Interrupt Inputs
- 2 SPI
- I2C
- 4 UART
- 2 CAN Channels
- 8 10-bit Analog Inputs
- 10-bit Analog Output
- 4-bit SD Memory card interface
- 6 PWM with the same clock
- 100 mA everything enabled
- 200 uA Hibernate Modes
- -40°C to +85°C
- RoHS Lead Free

Connectors and Pin-out



H1 Pin-out

No.	Name	No.	Name
1	BL#/P2.10/E0*	2	CTS1/P2.2/E1*
3	PWM5/P2.4/E2*	4	RXD1/P2.1/E3*
5	PWM4/MODE/P2.3/E4*	6	TXD1/P2.0/E5*
7	MOSI1/P0.9/E6*	8	PWM6/P2.5/E7*
9	MISO1/P0.8/E8*	10	P2.6/E9*
11	SCK1/P0.7/E10*	12	RTS1/P2.7/E11*
13	SSEL1/P0.6/E12*	14	TXD3/P4.28/E13
15	TD2/P0.5/E14*	16	TD1/P0.1/E15*
17	RD2/P0.4/E16*	18	RXD3/P4.29/E17
19	TXD0/P0.2/E18*	20	RD1/P0.0/E19*
21	RDX0/P0.3/E20*	22	USB_PWR_OC/P1.27/E21
23	ADC3/AOUT/P0.26/E22*	24	PWM3/P1.21/E23
25	ADC2/P0.25/E24*	26	PWM2/P1.20/E25
27	ADC1/P0.24/E26*	28	ADC7/P0.13/E27*
29	ADC0/P0.23/E28*	30	ADC4/P1.30/E29
31	RESET#	32	ADC6/P0.12/E30*
33	SCL0/P0.28/E31* (open drain)	34	ADC5/P1.31/E32
35	SDA0/P0.27/E33* (open drain)	36	VBAT
37	GND	38	USB_PWR_EN/P1.19/E34
39	+5Volt	40	PWM1/P1.18/E35

H2 Pin-out

No.	Name	No.	Name
1	VCC	2	GND
3	TXD2/P2.8/E36*	4	RXD2/P2.9/E37*
5	P0.11/E38*	6	P0.10/E39*
7	MISO0/P0.17/E40*	8	MOSI0/P0.18/E41*
9	SCK0/P0.15/E42*	10	SSEL0/P0.16/E43*

* Interrupt capable input.



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