



easyDSP Real-time MCU Monitoring

easyDSP is a powerful graphical user interface (GUI) for the maintaining, configuring and trouble-shooting of embedded software with strict real-time requirements. The tool automatically extracts the symbol information from compiler's output file and presents the user with windows for the viewing, editing, logging and graphing of those symbols, in real-time, while the target software is executing. easyDSP communicates with the target MCU over a serial communication link, SCI or USART. On the target, only a small "remote agent" needs to be called in the lowest prioritized task. Since the remote agent runs on spare processor cycles, it does not interfere with the interrupt driven part of the software. This makes the tool ideal for interfacing with power electronics control software, where the control tasks need to be executed uninterruptedly and with minimal latency. The fact that easyDSP does not depend on JTAG/SWD for communicating with the target makes the tool operate reliably in environments with strong EMI and/or high-voltage isolation requirements.

Since 1999, it has been used in many industrial MCU applications and has made great reputation in both performance and quality.

Products

Type 1 : standard isolation for TI C2000

Type 2 : reinforced isolation with optic cable (max. 200m) for TI C2000

Type 3 : standard isolation for ARM Cortex-M and Renesas RX core

Key Features

- Supporting TI C2000 MCU series : F28P65x, F2838x, F2837x, F28[23x, 33x], F280[2x, 3x, 5x, 6x, 7x], F2800[1x, 2x, 3x, 4x], C2834x, F28[0x, 1x] series
- Supporting TI AM263x, TM4C and MSPM0 MCU series
- Supporting ST STM32 MCU series : F, G, H, L, U, C, WB, WBA, WL series
- Supporting Infineon PSoC4, XMC1/4 MCU series
- Supporting Renesas RA, RX series
- Supporting Toshiba TX, TXZ3 series
- Supporting NXP LPC1x00 series
- OS : 64bit Windows
- On-chip flash programming (except XMC1)
- RAM booting for TI C2000, TI AM263x and STM32
- Reading/Writing for user code variables
- Support various data format (array, struct, union, class, bit-field)
- Versatile interface (command, watch, plot, memory, array, tree, chart, recorder windows)
 Isolation between PC and MCU
- www.easydsp.com

Specification

- USB bus powered
- USB 2.0 full speed compatible
- operating temperature : 5° 55° centigrade non-
- condensing
 warranty : 3 months from purchase date
- two LEDs provide operational status
- galvanic isolation
- optic cable with HFBR-1414 and HFBR-2412 for type2
- pod dimension

82 x 56 x 21 cm³ for type1 and 2, 81x 42.5 x 21 cm³ for type3

• weight : 140g for type1, 330g for type2, 62g for type3





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Screen Shot

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Name	Value	🔳 Туре 🛛	Address	Dimensi	x_struct.iarray = array
ezDSP_nStartPos	13	int	0x008E40		x_struct.iarray[0] = 0x0033
ezDSP_ringBuffer	array	char[50]	0x008E43		
ezDSP_ringBuffer[0]	0	char	0x008E43		ldX = 0
ezFlash_Buffer	array	uns int[512]	0x008C40		ulRunningCount=880727106
ezFlash_Buffer[0]	6107	uns int	0x008C40		
ezFlash_ulZ1CSMKeys		uns long[4]	0x008C16		ezFlash_fstStatus=struct
ldX	0	long double	0x008EA6		ezFlash_fstStatus.FirstFailAddr=3251018715
abort	30464	int	0x008821		
FlashRegs	struct	FLASH_RE	0x000A80		ezFlash_fstStatus.ExpectedData=46415
ezDSP_fFloat	500000u	float	0x008E92	micro(u)	
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