# **Product Brief**









# 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 C28x

Type 2: reinforced isolation with optic cable (max. 200m) for TI C28x Type 3: standard isolation for ARM Cortex-M/R and Renesas RX core

### **Key Features**

- Supporting TI C28x MCU series: F28Px, 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, S32 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

## **Specification**

- USB bus powered
- USB 2.0 full speed compatible
- operating temperature :
   5° 55° centigrade noncondensing
- 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 cm<sup>3</sup> for type1
   and 2, 81x 42.5 x 21 cm<sup>3</sup>
   for type3
- weight: 140g for type1, 330g for type2, 62g for type3

# Product Brief



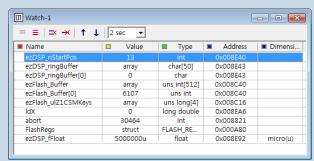




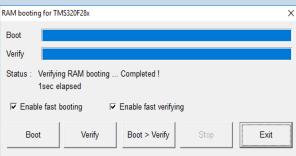


# easyDSP Real-time MCU Monitoring

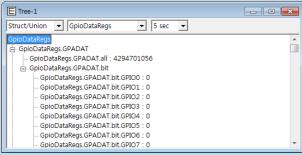
#### **Screen Shot**

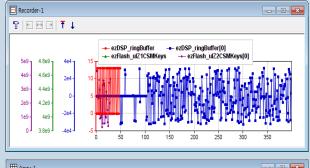


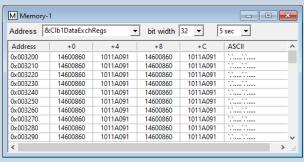












u16aArrayDim2	[*][0]	[*][1]	[*][2]	[*][3]	[*][4]	[*][5]	[*][6]	[*][7]	[*][8]	[*][9]	[*][10]	[*][11]
[0][*]	0	1	2	3	4	5	6	7	8	9	10	11
[1][*]	10	-11	12	13	14	15	16	17	18	19	20	21
[2][*]	20	21	22	23	24	25	26	27	28	29	30	31
[3][*]	30	31	32	33	34	35	36	37	38	39	40	41
[4][*]	40	41	42	43	44	45	46	47	48	49	50	51
[5][*]	50	51	52	53	54	55	56	57	58	59	60	61
[6][*]	60	61	62	63	64	65	66	67	68	69	70	71
[7][*]	70	71	72	73	74	75	76	77	78	79	80	81
[8][*]	80	81	82	83	84	85	86	87	88	89	90	91
[9][*]	90	91	92	93	94	95	96	97	98	99	100	101
[10][*]	100	101	102	103	104	105	106	107	108	109	110	111

#### www.easydsp.com

How to reach us: http://www.easydsp.com Published by easyDSP All Rights Reserved **Legal Disclaimer** This information given in this product brief shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, easyDSP hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights or any third part.