USB-DIO12800

128 channel highly integrated digital IO board

INTRODUCTION

The USB-DIO12800 is designed for high speed Digital Data Logger with USB 2.0 interface. It composes of 128 bits I/O port and interfaces for external. It should use with a daughter board DIO128-JIG board which can control a lot of channels for external interface. It can be programmable the input and output channels.

GENERAL DESCRIPTION

- ◆ USB2.0 Device Specification
- ◆ Full Speed(12Mbps) device
- ◆ UBS Bus Powered
- ◆ 128bit general purpose I/O, Direction control grouped by 16bit.

APPLICATION

- ◆ Data acquisition
- ◆ Laboratory instrumentation
- ◆ Process control systems

SOFTWARE

▣ **Operating System**

- ▪ Windows 2000/XP/7 (32/64bit)

▣ **Support**

- ▪ Visual basic/C++ with Board API(DLL)

SPECIFICATION

▣ **Digital Input/Output**

- ▪ Number of Channels : 128
- ▪ Maximum Transfer Speed : 100hz
- ▪ Selectable Read/Write to 16bit each 8 groups
- ▪ Bulk Data Transfer
- ▪ 5V tolerance Logic Input
- ▪ 3.3V CMOS output

PHYSICAL/ENVIRONMENTAL

▣ Dimension

- Host Connector : USB B-type connector
- I/O Connector : 2.54-pitch 80-pin Header
- Dimension (including connectors) : 117mm x 72mm

J1

+5VUSB	1	2	+5VUSB
+3.3V	3	4	+3.3V
N.C	5	6	N.C
N.C	7	8	N.C
LD_0	9	10	LD_1
LD_2	11	12	LD_3
LD_4	13	14	LD_5
LD_6	15	16	LD_7
LD_8	17	18	LD_9
LD_10	19	20	LD_11
LD_12	21	22	LD_13
LD_14	23	24	LD_15
GND	25	26	GND
LD_16	27	28	LD_17
LD_18	29	30	LD_19
LD_20	31	32	LD_21
LD_22	33	34	LD_23
LD_24	35	36	LD_25
LD_26	37	38	LD_27
LD_28	39	40	LD_29
LD_30	41	42	LD_31
GND	43	44	GND
LD_32	45	46	LD_33
LD_34	47	48	LD_35
LD_36	49	50	LD_37
LD_38	51	52	LD_39
LD_40	53	54	LD_41
LD_42	55	56	LD_43
LD_44	57	58	LD_45
LD_46	59	60	LD_47
GND	61	62	GND
LD_48	63	64	LD_49
LD_50	65	66	LD_51
LD_52	67	68	LD_53
LD_54	69	70	LD_55
LD_56	71	72	LD_57
LD_58	73	74	LD_59
LD_60	75	76	LD_61
LD_62	77	78	LD_63
GND	79	80	GND

J4

+5VUSB	1	2	+5VUSB
+3.3V	3	4	+3.3V
N.C	5	6	N.C
N.C	7	8	N.C
LD_126	9	10	LD_127
LD_124	11	12	LD_125
LD_122	13	14	LD_123
LD_120	15	16	LD_121
LD_118	17	18	LD_119
LD_116	19	20	LD_117
LD_114	21	22	LD_115
LD_112	23	24	LD_113
GND	25	26	GND
LD_110	27	28	LD_111
LD_108	29	30	LD_109
LD_106	31	32	LD_107
LD_104	33	34	LD_105
LD_102	35	36	LD_103
LD_100	37	38	LD_101
LD_98	39	40	LD_99
LD_96	41	42	LD_97
GND	43	44	GND
LD_94	45	46	LD_95
LD_92	47	48	LD_93
LD_90	49	50	LD_91
LD_88	51	52	LD_89
LD_86	53	54	LD_87
LD_84	55	56	LD_85
LD_82	57	58	LD_83
LD_80	59	60	LD_81
GND	61	62	GND
LD_78	63	64	LD_79
LD_76	65	66	LD_77
LD_74	67	68	LD_75
LD_72	69	70	LD_73
LD_70	71	72	LD_71
LD_68	73	74	LD_69
LD_66	75	76	LD_67
LD_64	77	78	LD_65
GND	79	80	GND

▣ **Temperature**

- 0 to 60℃, Operating
- -20 to 80℃ Storage

▣ **Relative Humidity**

- 5 to 95%, Non-considering

▣ **Power Requirement**

- +5VDC(±5%) at Max. 250mA

BLOCK DIAGRAM