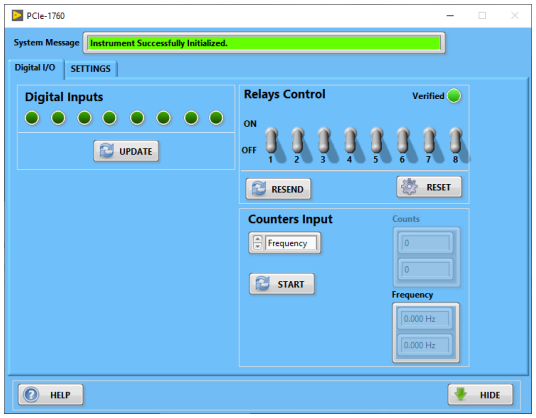
Advantech PCIE-1760 SOFT PANEL

USER MANUAL

1. INTRODUCTION

This document intends to provide the end-user with guidance on the PCIe-1760 soft panel application:



This device does not have user interface. Because of this, the soft panel is the only way to operate this device manually. The PCIE-1760 has the 8 digital input lines 8 relays and 2 counters.

The device pinout presented on the picture below:

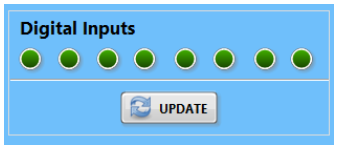
PCIE-1760 Pin Assignments

CN6

Description of pin use:				
	IGND	1	20	IDI 7+
IDIn+ (n=0 ~ 7):	IDI 7-	2	21	IDI 6+/ GATE 1+
Isolated digital input +	IDI 6-/ GATE 1-	3	22	IDI 5+
IDIn- (n=0 ~ 7):	IDI 5-	4	23	IDI 4+/ CLK 1+
Isolated digital input -	IDI 4-/ CLK 1-	5	24	IDI 3+
PWMn (n=0~1):	IDI 3-	6	25	IDI 2+/ GATE 0+
Isolated or TTL digital output (for PWM)	IDI 2-/ GATE 0-	7	26	IDI 1+
Rn_OUT (n=2~7):	IDI 1-	8	27	IDI 0+ / CLK 0+
Normally Open/Closed pin of Relay output	IDI 0- / CLK 0-	9	28	PWM1
Rn_NO (n=0~1):	PWM0	10	29	R4_OUT
Normally Open pin of Relay output	R7_OUT	11	30	R3_OUT
Rn_NC (n=0~1):	R6_OUT	12	31	R2_OUT
Normally Close pin of Relay output	R5_OUT	13	32	R1_NO
Rn_COM (n=0~7):	R7_COM	14	33	R1_NC
Common pin of Relay output	R6_COM	15	34	R1_COM
GATEn + (n=0~1):	R5_COM	16	35	R0_NO
Counter n gate input +	R4_COM	17	36	R0_NC
GATEn - (n=0~1):	R3_COM	18	37	R0_COM
Counter n gate input -	R2_COM	19		
CLKn + (n=0~1):				
Counter n clock input +				
CLKn - (n=0~1):				
Counter n clock input -				

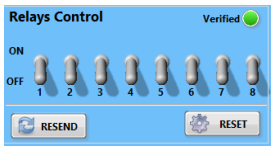
The following sections describe the operation of the PCIE-1760 soft panel where each set of functions represented on the dedicated page.

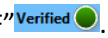
2 Digital inputs



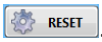
Press “UPDATE” button.

3 Relays Control

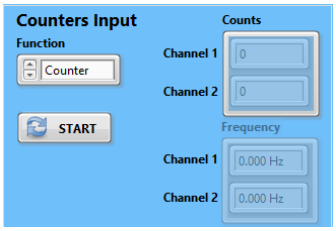


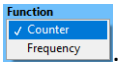
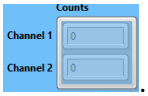
3.1 Select desired relay  . The new state of all relays will be sent to the board. After setting up relays, the board queried for their state. If the actual relays state equal to the selection, the indicator “Verified” will be “ON”  . Otherwise it will be “OFF”  .

3.2 The state of the relays can be re-set by using the “RESET” button  .

3.3 To open all relays use the “RESET” button  .

4 Counters



4.1 Select desired function  . The “Counter” selection will perform the pulses count  .

The “Frequency” selection will measured frequencies on channel 1 and channel 2  .