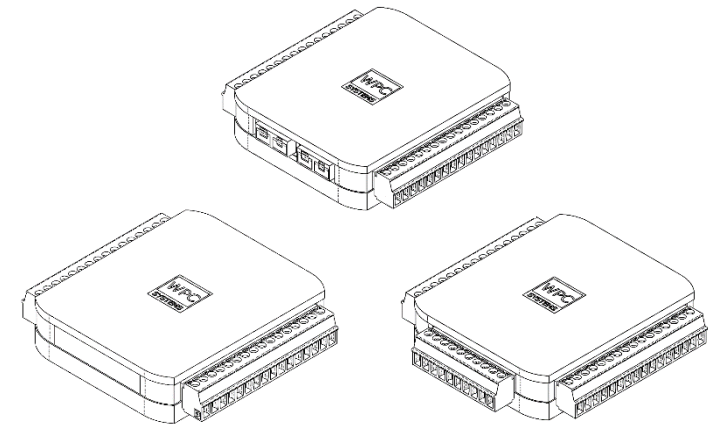


WPC USB DAQ-XX user manual

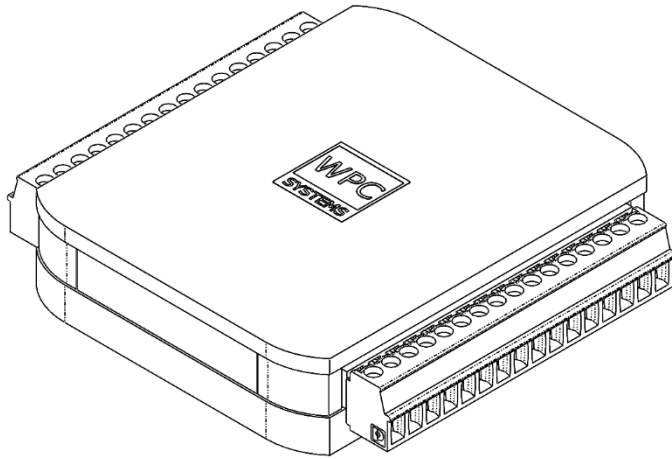
WPC Systems Ltd.

Justin Wu

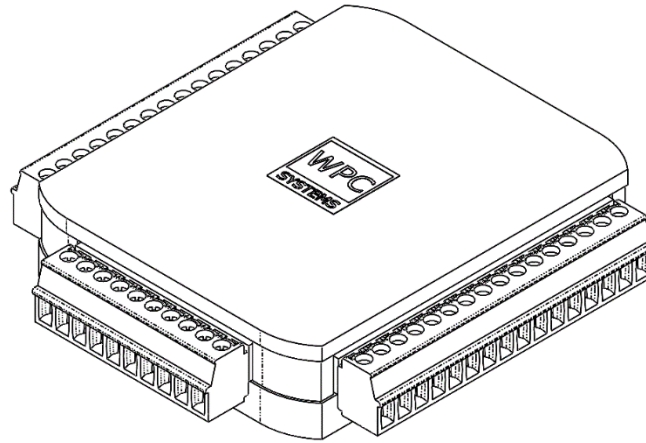
2022-01-22



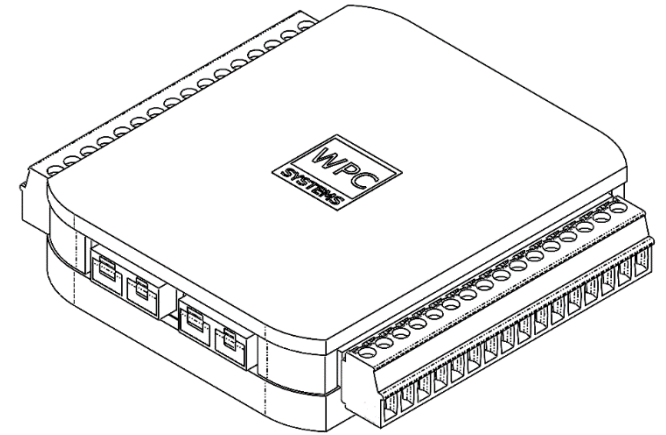
Model feature



Model: WPC-USB-DAQ-D
3.3V DIO (5V tolerant)
SPI / I2C / UART



WPC-USB-DAQ-DA
3.3V DIO (5V tolerant)
8ch +/-10V analog input

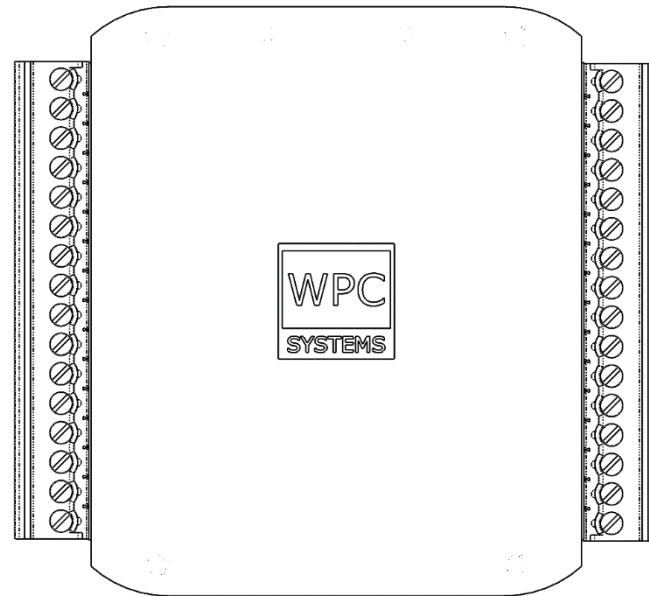


WPC-USB-DAQ-DT
3.3V DIO (5V tolerant)
2ch universal thermocouple input

WPC-USB-DAQ-D

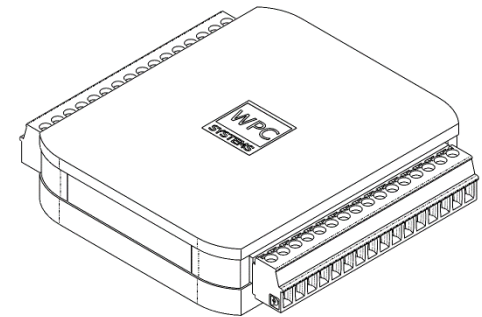
- Level: 3.3V (5V-tolerant)
- DIO / SPI / I2C / UART

	GND	1
	5V	2
MOSI2	P3.5	3
MISO2	P3.4	4
SCK2	P3.3	5
CS2	P3.2	6
SDA2	P3.1	7
SCL2	P3.0	8
SDA1	P2.7	9
SCL1	P2.6	10
	P2.5	11
	P2.4	12
MOSI1	P2.3	13
MISO1	P2.2	14
SCK1	P2.1	15
CS1	P2.0	16



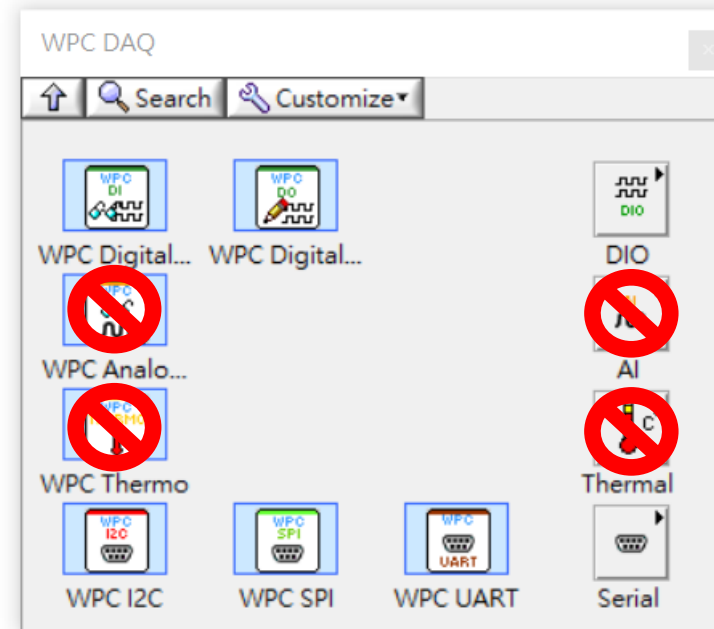
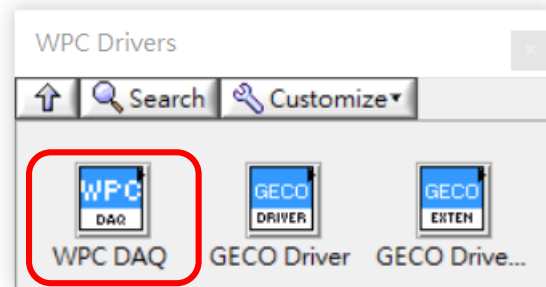
32	P0.0	
31	P0.1	
30	P0.2	
29	P0.3	RX1
28	P0.4	TX1
27	P0.5	
26	P0.6	
25	P0.7	
24	P1.0	
23	P1.1	
22	P1.2	RX2
21	P1.3	TX2
20	P1.4	
19	P1.5	
18	5V	
17	GND	

Digital only



Driver API (WPC-USB-DAQ-D)

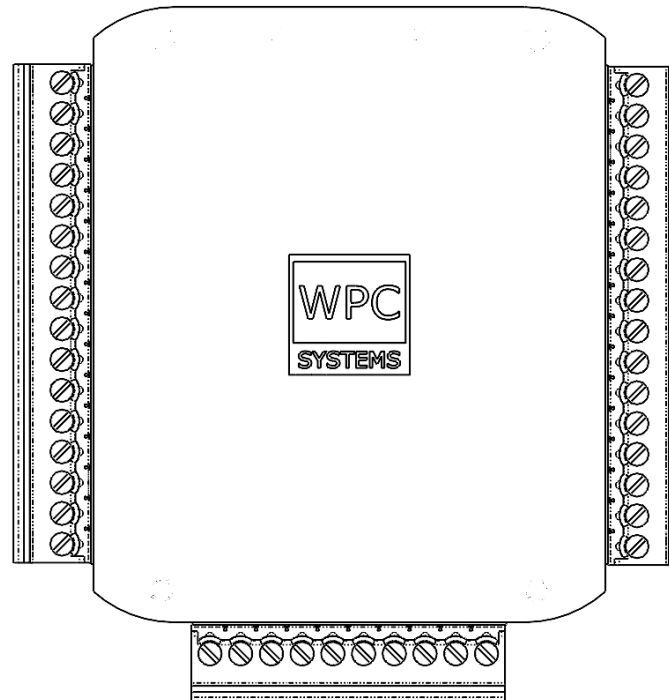
Digital only



WPC-USB-DAQ-DA

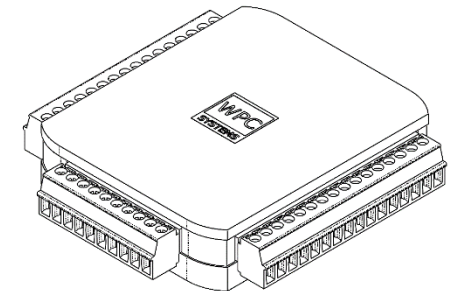
- Level: 3.3V (5V-tolerant)
- DIO / SPI / I2C / UART
- +/-10V Analog input (single-ended)

	GND	1
	5V	2
MOSI2	P3.5	3
MISO2	P3.4	4
SCK2	P3.3	5
CS2	P3.2	6
SDA2	P3.1	7
SCL2	P3.0	8
SDA1	P2.7	9
SCL1	P2.6	10
	P2.5	11
	P2.4	12
	P2.3	13
	X	14
	X	15
	X	16



32	P0.0	
31	P0.1	
30	P0.2	
29	P0.3	RX1
28	P0.4	TX1
27	P0.5	
26	P0.6	
25	P0.7	
24	P1.0	
23	P1.1	
22	P1.2	RX2
21	P1.3	TX2
20	X	
19	X	
18	5V	
17	GND	

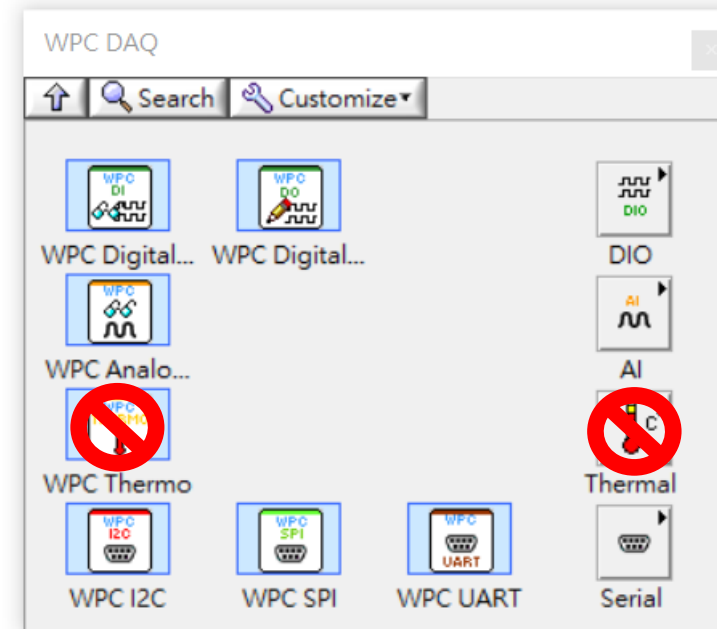
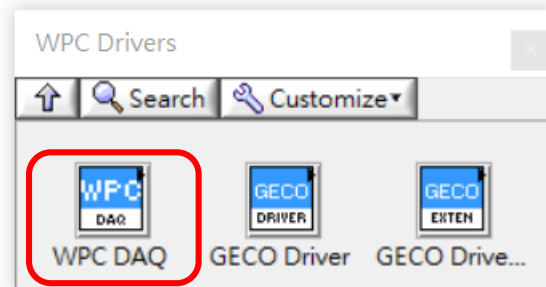
Digital + Analog In



33	34	35	36	37	38	39	40	41	42
GND	AI0	AI1	AI2	AI3	AI4	AI5	AI6	AI7	GND

Driver API (WPC-USB-DAQ-DA)

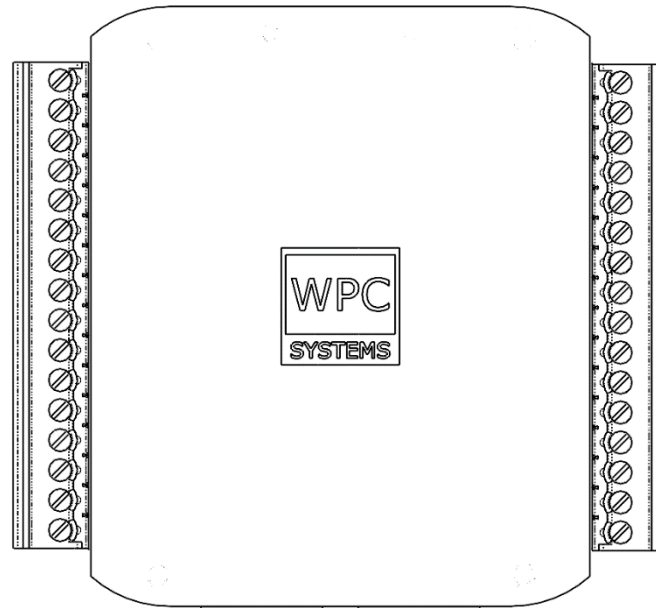
Digital + Analog In



WPC-USB-DAQ-DT

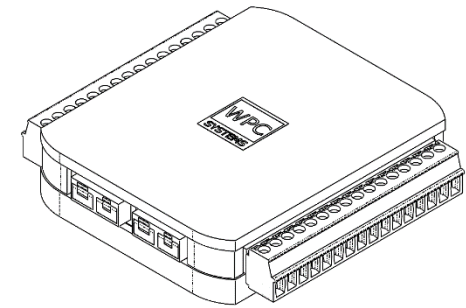
- Level: 3.3V (5V-tolerant)
- DIO / SPI / I2C / UART
- Thermocouple (K, J, N, R, S, T, E, B)

	GND	1
	5V	2
MOSI2	P3.5	3
MISO2	P3.4	4
SCK2	P3.3	5
CS2	P3.2	6
SDA2	P3.1	7
SCL2	P3.0	8
SDA1	P2.7	9
SCL1	P2.6	10
	P2.5	11
	P2.4	12
	X	13
	X	14
	X	15
	X	16



32	P0.0	
31	P0.1	
30	P0.2	
29	P0.3	RX1
28	P0.4	TX1
27	P0.5	
26	P0.6	
25	P0.7	
24	P1.0	
23	P1.1	
22	P1.2	RX2
21	P1.3	TX2
20	P1.4	
19	X	
18	5V	
17	GND	

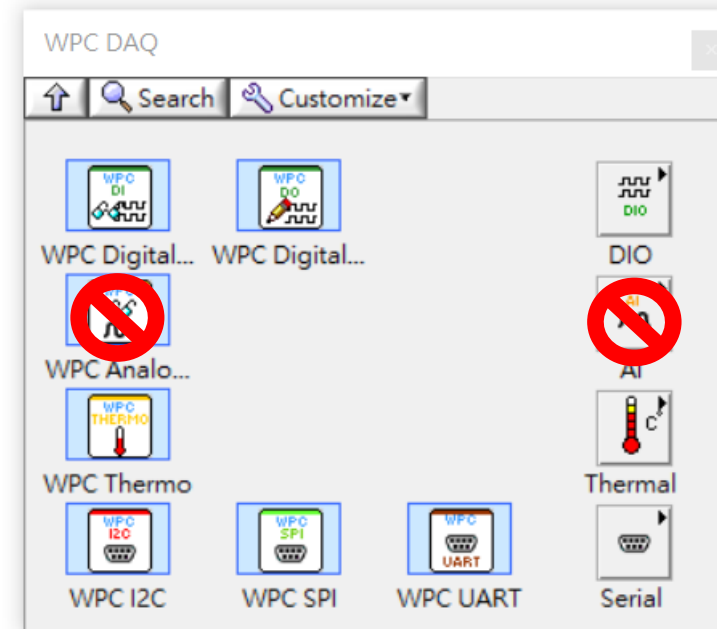
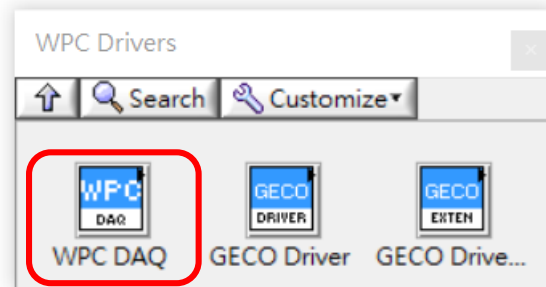
Digital + Thermocouple



33	34
TC1	TC2

Driver API (WPC-USB-DAQ-DT)

Digital + Thermocouple



WPC Device Manager (WDM)

The screenshot displays the WPC Device Manager (v.1.0.1.10) interface. On the left, a tree view under 'My Computer' shows a list of devices: two USB-DAQ-F1-AD units, two Ethernet units (Ethan at 192.168.1.111 and 192.168.1.120), and two Wifi units (Wifi-DAQ-E3-A and Wifi-DAQ-F4-A). The 'Ethan (192.168.1.120)' device is selected. The main panel on the right is divided into three sections. The top section, labeled 'Software front panel', contains buttons for DI, DO, AI, Thermo, I2C, SPI, and UART. The middle section, labeled 'Device info/setting', displays fields for Device Model (Ethan), Serial Number (1JA0435), IP Address (192.168.1.120), subnet mask (255.255.255.0), MAC Address (5A:C3:08:99:D9:93), and Firmware Version (R0.2.8). To the right of these fields are buttons for Refresh, Pinout, Set IP, Reboot, and Update Firmware. The bottom section, labeled 'Message/status', shows a 'Connected' status with a green arrow icon.

Device list

Software front panel

Device info/setting
Firmware update

Message/status

Software front panel (SFP)

