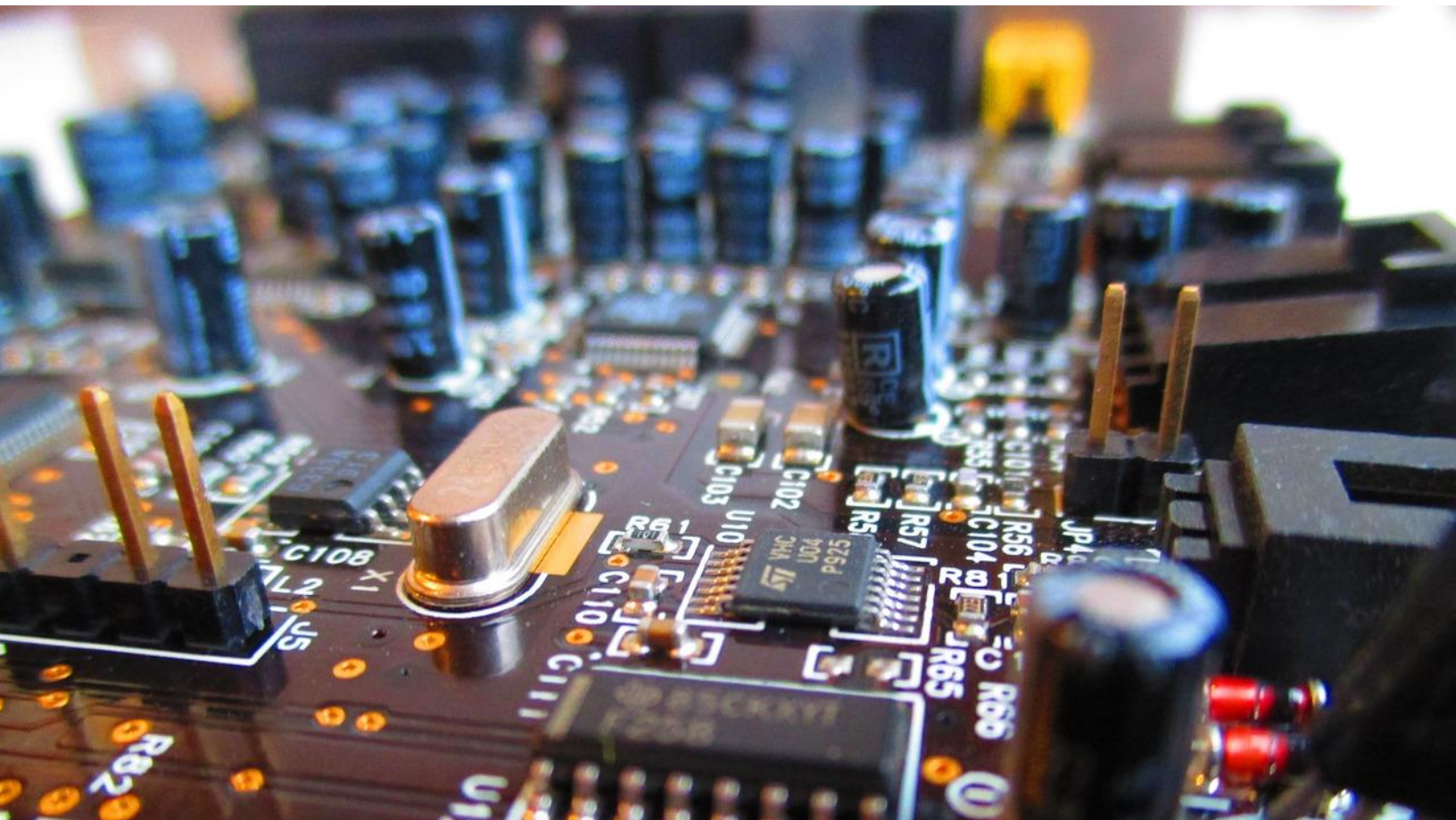




Solar PV Monitoring & Analytics

DATASHEET & USER MANUAL

WT32i



A product of Free Spirits **Green** Labs
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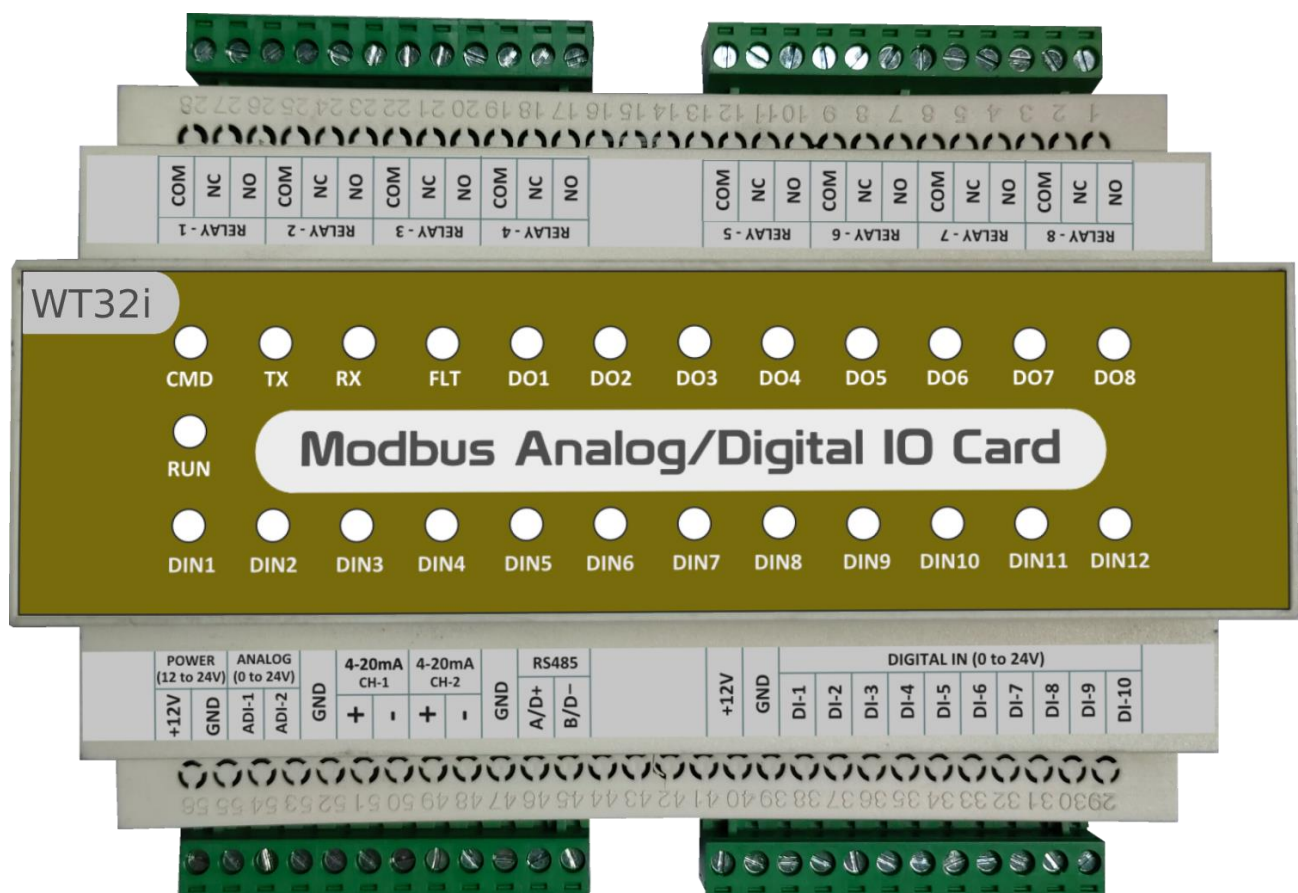
MODEL

TR621

DATASHEET

Introduction

S.No	I/O SPECIFICATION	No's
1	DIGITAL INPUT	10
2	RELAY / DIGITAL OUTPUT	8
3	ANALOG INPUT (0 -10V)	2
4	CURRENT INPUT (4-20ma)	2

**Modbus Output**

For understanding how to read Modbus output on a laptop kindly check <https://trackso.in/read-data-solar-inverter-meter-windows-pc/>

Register Mapping

Read Coil - 0x01

Write Coil - 0x05

Write Multiple Coil - 0x0F

S.No	Address (Dec)	Description	Type	Min	Max	Access	Description
1	1	Digital Output 1	bit	0	1	R/W	Status of Digital Outputs.
2	2	Digital Output 2	bit	0	1	R/W	
3	3	Digital Output 3	bit	0	1	R/W	
4	4	Digital Output 4	bit	0	1	R/W	
5	5	Digital Output 5	bit	0	1	R/W	
6	6	Digital Output 6	bit	0	1	R/W	
7	7	Digital Output 7	bit	0	1	R/W	
8	8	Digital Output 8	bit	0	1	R/W	

Read Input Status - 0x02

S.No	Address (Dec)	Description	Type	Min	Max	Access	Description
1	10001	Digital Input 1	bit	0	1	R	Status of Digital Inputs.
2	10002	Digital Input 2	bit	0	1	R	
3	10003	Digital Input 3	bit	0	1	R	
4	10004	Digital Input 4	bit	0	1	R	
5	10005	Digital Input 5	bit	0	1	R	
6	10006	Digital Input 6	bit	0	1	R	
7	10007	Digital Input 7	bit	0	1	R	
8	10008	Digital Input 8	bit	0	1	R	
9	10009	Digital Input 9	bit	0	1	R	
10	10010	Digital Input 10	bit	0	1	R	
11	10011	Digital Input 11	bit	0	1	R	
12	10012	Digital Input 12	bit	0	1	R	

Read Input Register - 0x04

S.No	Address (Dec)	Register Name	Type	Min	Max	Access	Description
1	30001	S/W Version / Module Type	unsigned int	N/A	N/A	R	High Byte = Software Version Low Byte = 101
2	30002	Digital Inputs	unsigned int	N/A	N/A	R	Digital Inputs in bits. 16(msb) – 1(lsb).
3	30003	Analog Input-1	float	0	29.99	R	
4	30005	Analog Input-2	float	0	29.99	R	
5	30011	4-20ma ch-1	float	4	19.99	R	
6	30013	4-20ma ch-2	float	4	19.99	R	

Read Holding Register - 0x03

S.No	Address (Dec)	Register Name	Type	Min	Max	Access	Description
1	40001	Digital Outputs	unsigned int	0	N/A	R	Digital Outputs in bits. 16(msb) – 1(lsb).
2	40002	IO Change Status	unsigned int	0	1	R	Input/Output Bit Change Status
3	40003	Input-1	unsigned int	0	1	R	
4	40004	Input-2	unsigned int	0	1	R	
5	40005	Input-3	unsigned int	0	1	R	
6	40006	Input-4	unsigned int	0	1	R	
7	40007	Input-5	unsigned int	0	1	R	
8	40008	Input-6	unsigned int	0	1	R	
9	40009	Input-7	unsigned int	0	1	R	
10	40010	Input-8	unsigned int	0	1	R	
11	40011	Input-9	unsigned int	0	1	R	
12	40012	Input-10	unsigned int	0	1	R	
13	40013	Input-11	unsigned int	0	1	R	
14	40014	Input-12	unsigned int	0	1	R	
15	40015	Output-1	unsigned int	0	1	R	
16	40016	Output-2	unsigned int	0	1	R	
17	40017	Output-3	unsigned int	0	1	R	
18	40018	Output-4	unsigned int	0	1	R	
19	40019	Output-5	unsigned int	0	1	R	
20	40020	Output-6	unsigned int	0	1	R	
21	40021	Output-7	unsigned int	0	1	R	
22	40022	Output-8	unsigned int	0	1	R	
23	40023	Analog Input-1	float	0	29.99	R	
24	40025	Analog Input-2	float	0	29.99	R	
25	40027	4-20ma ch-1	float	4	19.99	R	
26	40029	4-20ma ch-2	float	4	19.99	R	

Read Holding Register - 0x03

Write Register - 0x06

Write Multiple Register - 0x10

S.No	Address (Dec)	Register Name	Type	Min	Max	Access	Description
1	40101	Device ID	unsigned int	1	247	R/W	1 -247 modbus slave address
2	40102	Baud rate	unsigned int	0	7	R/W	0=2400, 1=4800, 2=9600, 3=19200, 4=38400, 5=57600, 6=115200
3	40103	Bits	unsigned int	0	0	R/W	0=8bit
4	40104	Parity	unsigned int	0	2	R/W	0 = none, 1 = even, 2 = odd
5	40105	Stop	unsigned int	0	2	R/W	1 = 1 stop bit, 2 = 2 stop bits
6	40106	Interchar/Reply dly	unsigned int	2	10	R/W	unit (x10ms)

Read Holding Register - 0x03

Write Register - 0x06

Write Multiple Register - 0x10

S.No	Address (Dec)	Register Name	Type	Min	Max	Access	Description
1	40201	Watchdog Timer	unsigned int	0	65535	R/W	Timer in seconds. 0 = disabled. 1 - 65535 = enabled.
2	40202	Output State Mask	unsigned int	0	65535	R/W	Default Output State

Note: Above register mapping is fixed and cannot be changed.

FREE SPIRITS GREEN LABS PVT. LTD.

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