

CNC4PC C92 Modbus Server User Manual

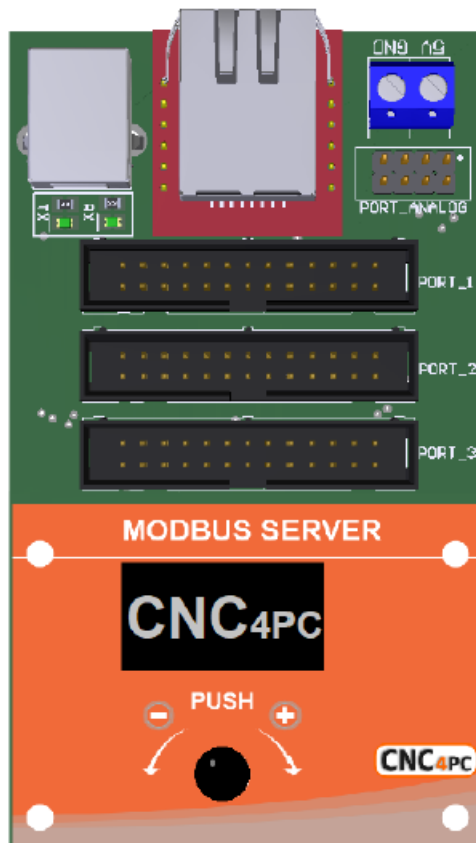
[Home](#) » [CNC4PC](#) » CNC4PC C92 Modbus Server User Manual 

Contents

- [1 CNC4PC C92 Modbus Server](#)
- [2 OVERVIEW](#)
- [3 FEATURES](#)
- [4 DESCRIPTION](#)
- [5 TERMINAL POWER](#)
- [6 MODBUS COMMUNICATION
PROTOCOL](#)
- [7 PINOUT](#)
- [8 CONFIGURE MENU](#)
- [9 DIMENSION](#)
- [10 Documents / Resources](#)
- [11 Related Posts](#)



CNC4PC C92 Modbus Server



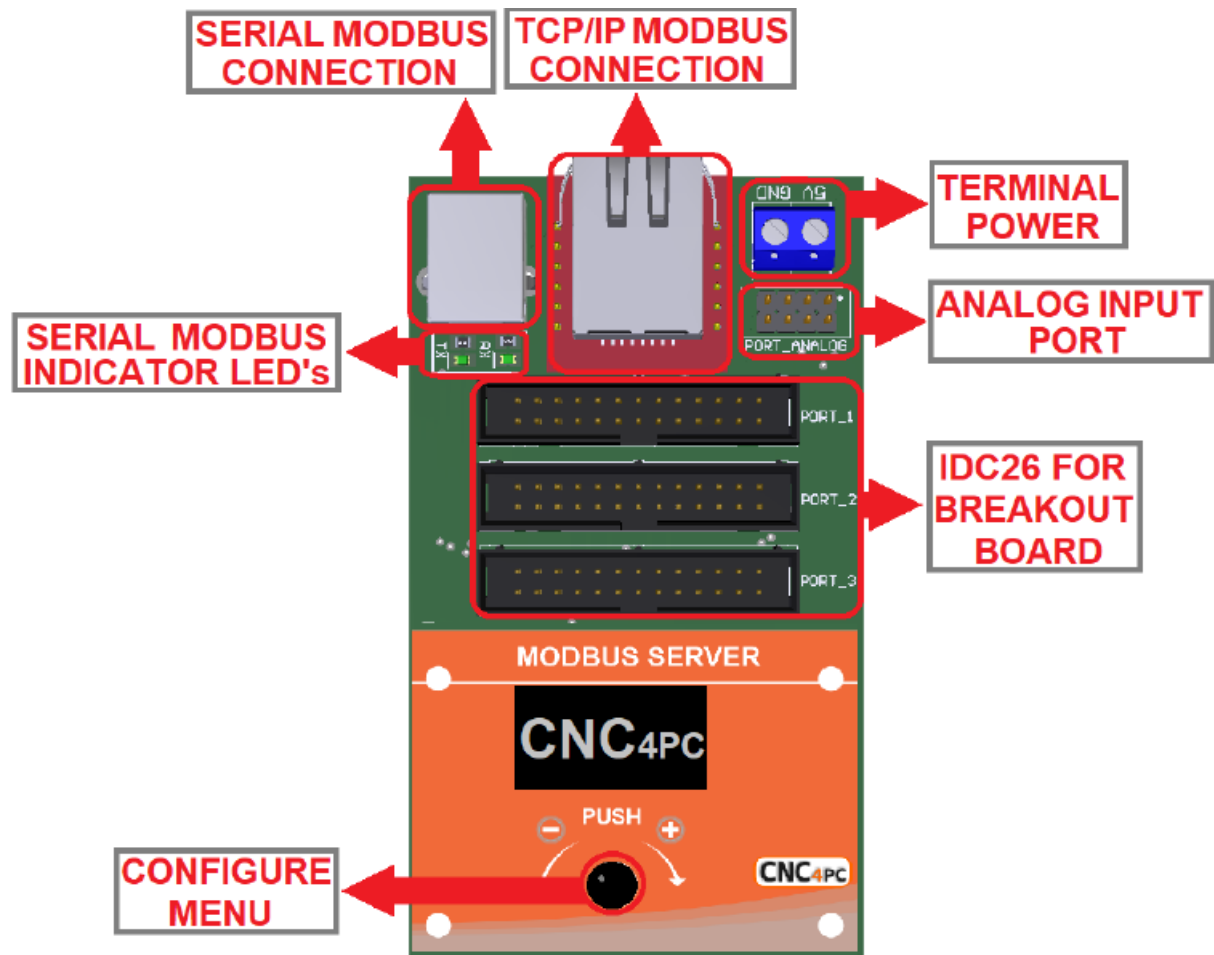
OVERVIEW

This card provides you with a serious Modbus or TCP / IP connection and has 3 configurable ports for TTL outputs and an analog port

FEATURES

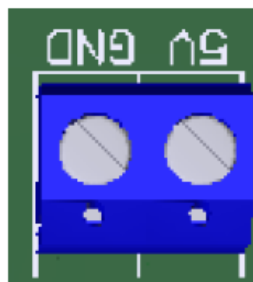
- MODBUS TCP/IP and USB protocol.
- Pins 2-9 on IDC26 can be bi-directional, determined by the internal configuration. Presentation Screen LCD
- It can be powered with a voltage +5vc or IDC26 PIN or from the USB connector. Compatible with CNC controller board.
- 3 Expansion Ports. It has 3 x IDC26 connector for additional Breakout or Relay Boards.
- IDC 8pin male for analog input
- Visualization of the state of the pins on the display with TCP / IP
- IP configurable
- Display and encoder for configuration
- Din rail mountable

DESCRIPTION



TERMINAL POWER

Regulated 5VDC @0.5A is required to power this board



WARNING: Check the polarity and voltage of the external power source and connect the 5VDC and GND. Overvoltage or reverse-polarity power applied to these terminals can cause damage to the board, and/or the power source

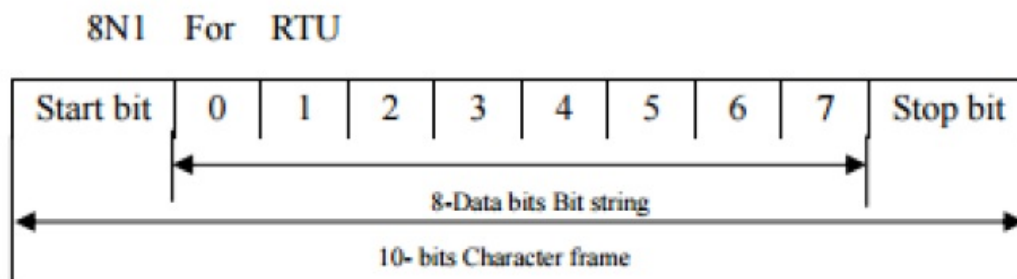
MODBUS COMMUNICATION PROTOCOL

USB Communications

For Modbus RTU (Remote Terminal Unit) mode communications the default parameters are the following:

- Baud Rate = 38,400bps
- Data Bits = 8
- Parity = None

- Stop Bits = 1
- Flow Control = None



Configuring the control software

To configure use the following sample configuration screen:

TCP/IP Communications

For Modbus TCP mode communications the default parameters are the following:

- IP address = Configurable in Board C92
- Port number = 502

Configuring the control software

To configure use the following sample configuration screen

Add Connection
Remove Connection
Add Function
Remove Function
Start loops


Connection_0
Input
Output

Connection settings
Function settings
Debug view
Variables table

Modbus connection type
☒ TCP
☐ Serial ASCII
☐ Serial RTU

Description
IP

IP address
10 . 10 . 10 . 9

Port number
502

Retry count
20

Time out(ms)
20

Loop interval(ms)
20

Board Modbus addresses

Analog, Input and output pin discrete.

FUNCTION NAME	FUNCTION TYPE
DISCRETE OUTPUT	Write SingleCoils
ANALOG INPUT	Read InputRegisters
DISCRETE INPUT	Read Inputs

PINOUT

PORT_1



IDC26 Pin number	ADDRESS MODBUS
1	100 OUT
2	104 IN/OUT
3	105 IN/OUT
4	106 IN/OUT
5	107 IN/OUT
6	108 IN/OUT
7	109 IN/OUT
8	110 IN/OUT
9	111 IN/OUT
10	112 IN
11	113 IN
12	114 IN
13	115 IN
14	101 OUT
15	116 IN
16	102 OUT
17	103 OUT
18 – 25	GND
26	+5VDC

PORT_2



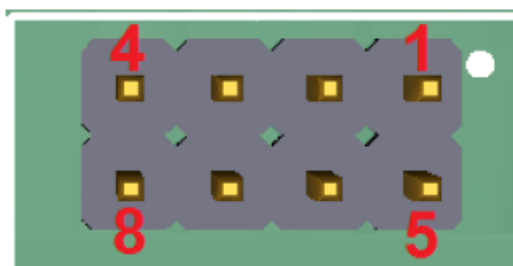
IDC26 Pin number	ADDRESS MODBUS
1	200 OUT
2	204 IN/OUT
3	205 IN/OUT
4	206 IN/OUT
5	207 IN/OUT
6	208 IN/OUT
7	209 IN/OUT
8	210 IN/OUT
9	211 IN/OUT
10	212 IN
11	213 IN
12	214 IN
13	215 IN
14	201 OUT
15	216 IN
16	202 OUT
17	203 OUT
18 – 25	GND
26	+5VDC

PORT_3



IDC26 Pin number	ADDRESS MODBUS
1	300 OUT
2	304 IN/OUT
3	305 IN/OUT
4	306 IN/OUT
5	307 IN/OUT
6	308 IN/OUT
7	309 IN/OUT
8	310 IN/OUT
9	311 IN/OUT
10	312 IN
11	313 IN
12	314 IN
13	315 IN
14	301 OUT
15	316 IN
16	302 OUT
17	303 OUT
18 – 25	GND
26	+5VDC

PORT ANALOG INPUT

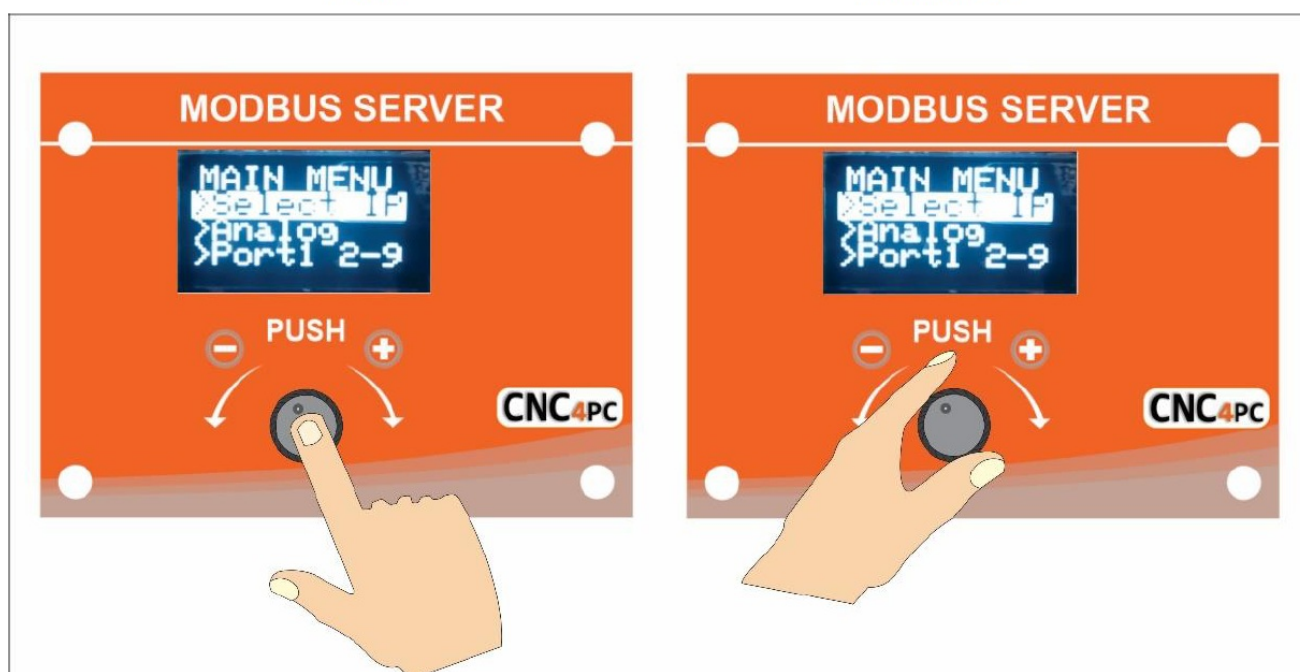


IDC8 Pin number	ADDRESS MODBUS
1	400
2	401
3	402
4	403
5	404
6	405
7	406
8	407

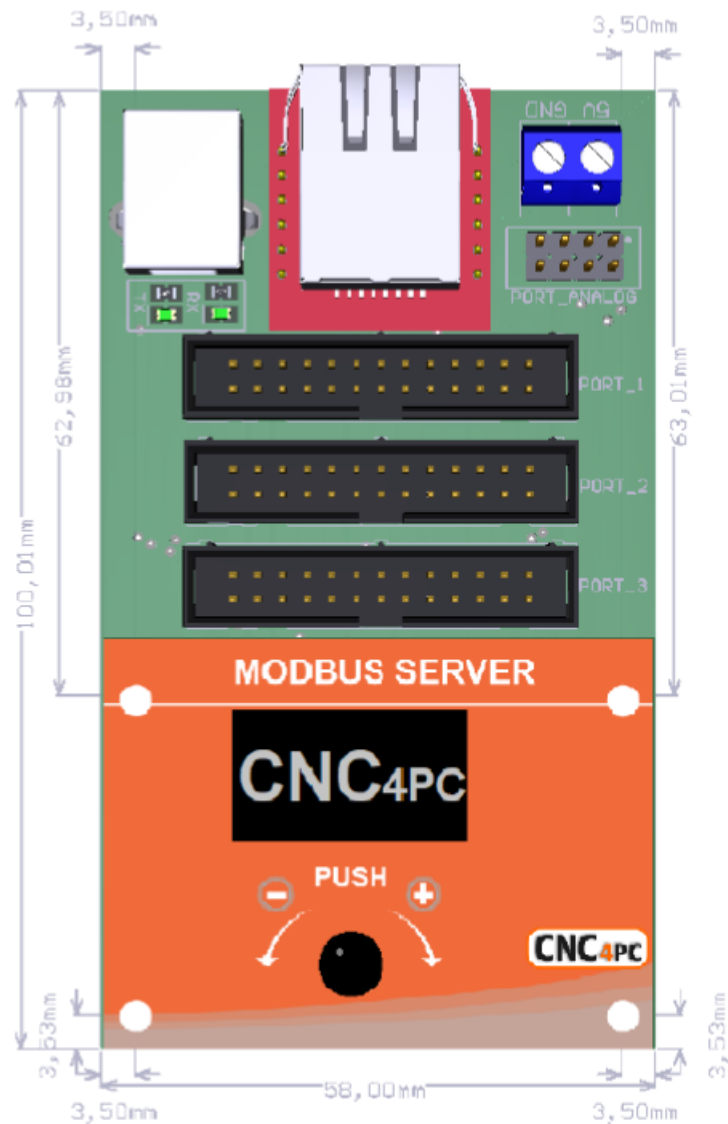
CONFIGURE MENU

Push

Turn knob



DIMENSION



All dimensions are in millimeters Fixing hole (3mm).

Disclaimer:

Use caution. CNC machines can be dangerous machines. Neither DUNCAN USA, LLC nor Arturo Duncan are liable for any accidents resulting from the improper use of these devices. This product is not a fail-safe device and it should not be used in life support systems or in other devices where its failure or possible erratic operation could cause property damage, bodily injury or loss of life.

Documents / Resources

	CNC4PC C92 Modbus Server [pdf] User Manual C92 Modbus Server, C92, Server, C92 Server, Modbus Server
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