

Vijeo Citect connect to M221 PLC

What is the purpose

Enhance the Vijeo Citect feature to connect with small PLC

What units are effected

1. Vijeo Citect
2. PLC M221

Details

This application is divided into several parts

Section	Title
1	Parts List
2	Step by step setup
3	Online Testing
4	Remarks

Section 1: Parts list

Parts List table

Items used in the test

Items	Part numbers	Description
PLC M221	TM221ME16T	PLC Hardware
SCADA	VJCNS101111+VJC109922	Vijeo Citect Software+dongle
Software		Software SoMachine Basic V1.4

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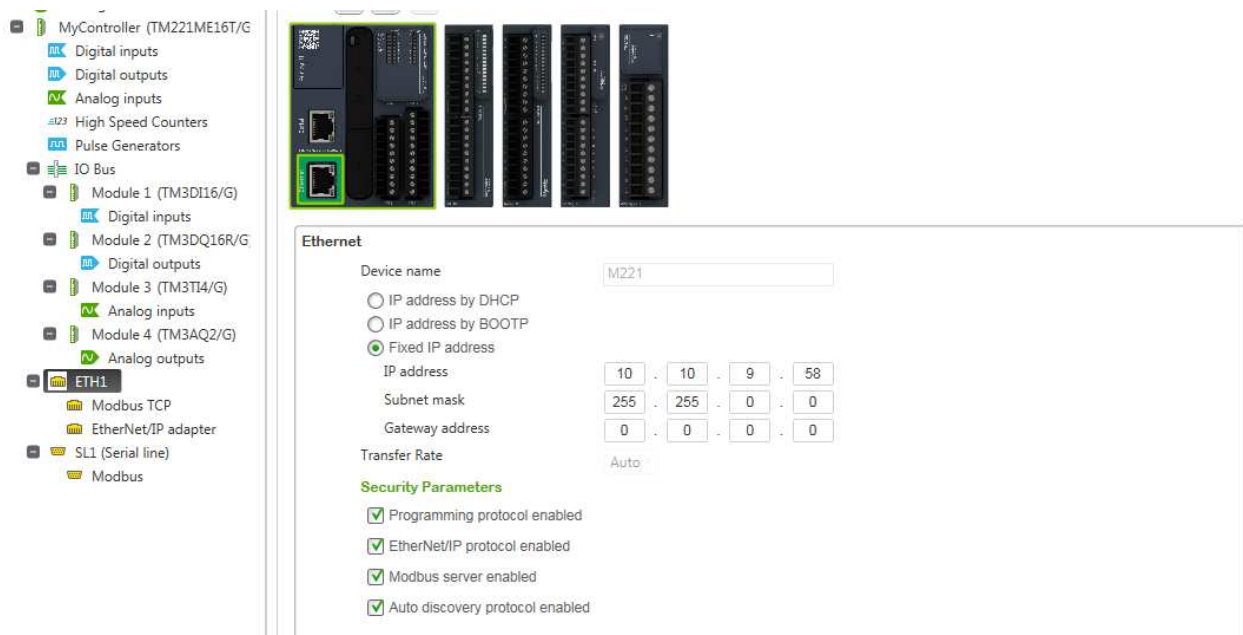
Section 1: Parts liststep by step

Step by step configuration software on Vijeo Designer :

Hardware Configuration:

PLC setting

1. Set The IP address of M221 PLC



MyController (TM221ME16T/G)

- Digital inputs
- Digital outputs
- Analog inputs
- High Speed Counters
- Pulse Generators
- IO Bus
 - Module 1 (TM3DI16/G)
 - Digital inputs
 - Module 2 (TM3DQ16R/G)
 - Digital outputs
 - Module 3 (TM3TI4/G)
 - Analog inputs
 - Module 4 (TM3AQ2/G)
 - Analog outputs
- ETH1**
 - Modbus TCP
 - EtherNet/IP adapter
 - SL1 (Serial line)
 - Modbus

Ethernet

Device name: M221

☐ IP address by DHCP
☐ IP address by BOOTP
☒ Fixed IP address

IP address: 10 - 10 - 9 - 58
 Subnet mask: 255 - 255 - 0 - 0
 Gateway address: 0 - 0 - 0 - 0

Transfer Rate: Auto

Security Parameters

- ☒ Programming protocol enabled
- ☒ EtherNet/IP protocol enabled
- ☒ Modbus server enabled
- ☒ Auto discovery protocol enabled

2. Set the Unit ID of M221 PLC



Commissioning

Connect

- Controller Update
- Memory Management
- Controller Info
- RTC Management

Local Devices

- COM1
- COM2@BT

☐ Keep Modbus driver parameters

Unit ID: 1

Ethernet Devices

Remote Lookup

Enter a URL or an IP address

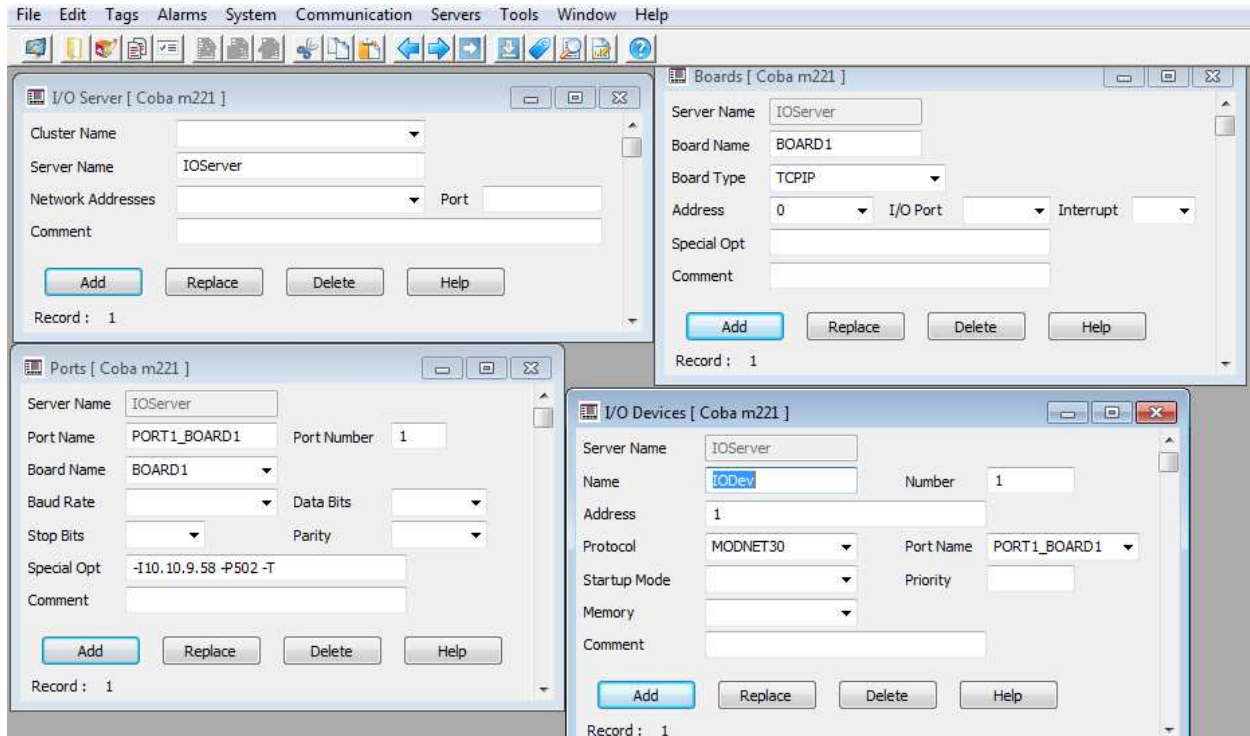
Add

Login

Logout

Software Configuration :

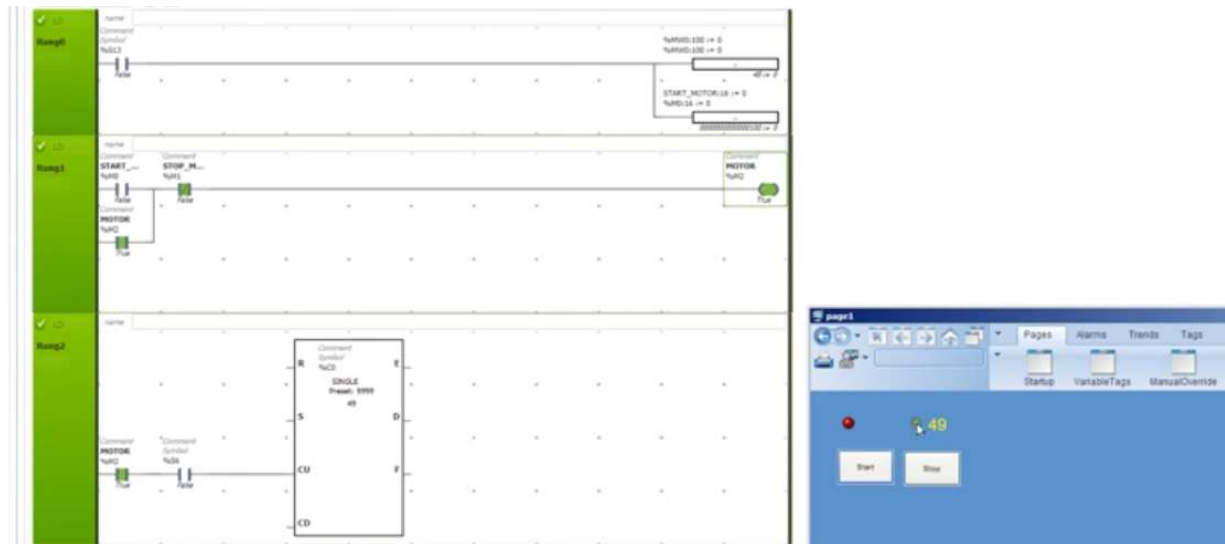
Vijeo Citect Setting



Section 3: Online Testing

Online testing :

1. Download the PLC program to the M221 hardware
2. Configured the Vijeo Citect Software
3. Test the program by click the animation button and analog value on the runtime graphic window
4. If connection success, the display will appear like this



Section 5: Remark

This features to meet customer expectations regarding low budget SCADA and PLC system, the M221 PLC is easy for program using ladder language and the Vijeo Citect SCADA can be used for complex application including report, data logging, batching system and trending

With this low budget system the SCADA could be used as gateways system communicate with many third party PLC as the capability of direct driver