

## Application code

|                         |               |                 |            |             |
|-------------------------|---------------|-----------------|------------|-------------|
| — AVR1MBCConn_Enable    | true          | bool            | retain     | true        |
| — AVR1MBCConn_Id        |               | Comm_Channel_ME | retain     |             |
| — AVR1MBCConn_Channel   | 1             | string          | retain     | '1'         |
| — AVR1MBRead1_Req       | false         | bool            | retain     |             |
| — AVR1MBCConn_Error     | false         | bool            | retain     |             |
| — AVR1MBRead1_Error     | false         | bool            | retain     |             |
| — AVR1MBCConn_Valid     | true          | bool            | retain     |             |
| — AVR1MBRead1_Ndr       | false         | bool            | retain     |             |
| — AVR1MBCConn_Partner   | 1.64          | string          | retain     | '1.64'      |
| — AVR1MBRead1_StartAddr | %QW10#101     | string          | retain     | '%QW10#101' |
| — AVR1MBRead1_Data1     | 0             | int             | retain     |             |
| — AVR1MBRead1_Data2     | 0             | int             | retain     |             |
| — AVR1MBCConn_Status    | 1             | dint            | retain     |             |
| — AVR1MBRead1_Status    | -7006         | dint            | retain     |             |
| — Status1               | 0.0           | real            | retain     |             |
| — PeriodTime            | 0d0h0m2s0ms   | time            | coldretain | time#2000ms |
| — PulseTime             | 0d0h0m0s500ms | time            | coldretain | time#500ms  |

< > Variables / Communication Variables / Function Blocks / Control Modules / Diagrams / <

**\*\* MBTCP Connection & Read Blocks 1 \*\***

```

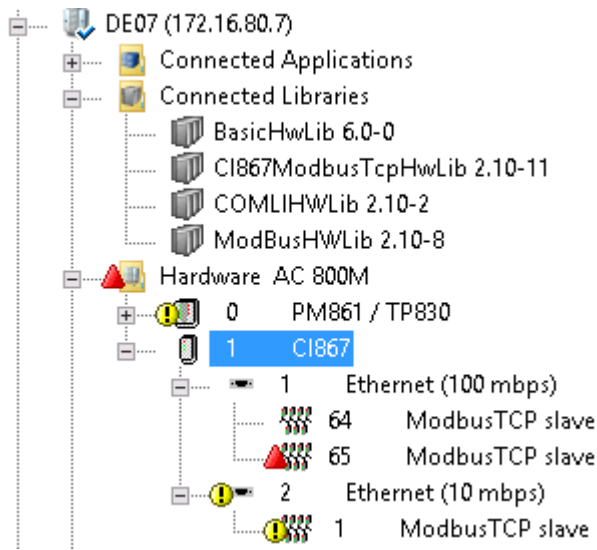
AVR1MBTCPConnect ( En_C := AVR1MBCConn_Enable,
                  Channel := AVR1MBCConn_Channel [ 1 ],
                  Partner := AVR1MBCConn_Partner [ 1.64 ],
                  Valid := AVR1MBCConn_Valid,
                  Error := AVR1MBCConn_Error,
                  Status := AVR1MBCConn_Status [ 1 ],
                  Id := AVR1MBCConn_Id );

Puls ( Enable := AVR1MBCConn_Valid,
      PeriodTime := PeriodTime [ 0d0h0m2s0ms ],
      PulseTime := PulseTime [ 0d0h0m0s500ms ],
      Out := AVR1MBRead1_Req );

AVR1MBRead1 ( Id := AVR1MBCConn_Id,
             Req := AVR1MBRead1_Req,
             StartAddr := AVR1MBRead1_StartAddr [ %QW10#101 ],
             Ndr := AVR1MBRead1_Ndr,
             Error := AVR1MBRead1_Error,
             Status := AVR1MBRead1_Status [ -7006 ],
             Rd [ 1 ] := AVR1MBRead1_Data1 [ 0 ],
             Rd [ 2 ] := AVR1MBRead1_Data2 [ 0 ] );

```

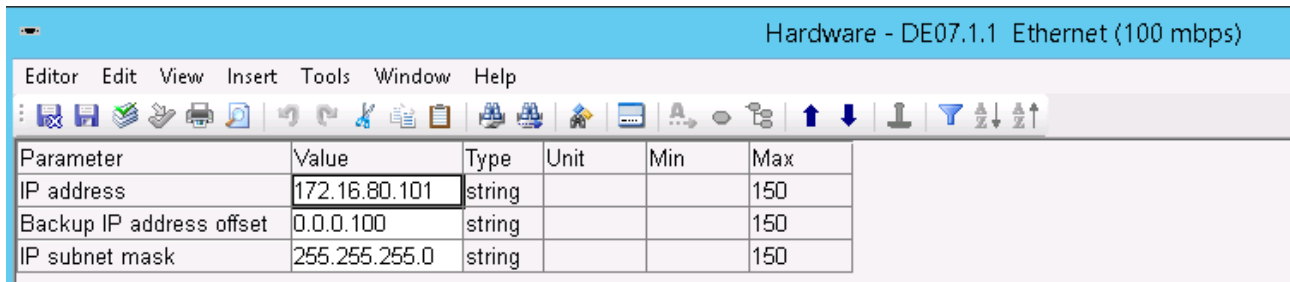
### Hardware config.



### Settings in CI867 card

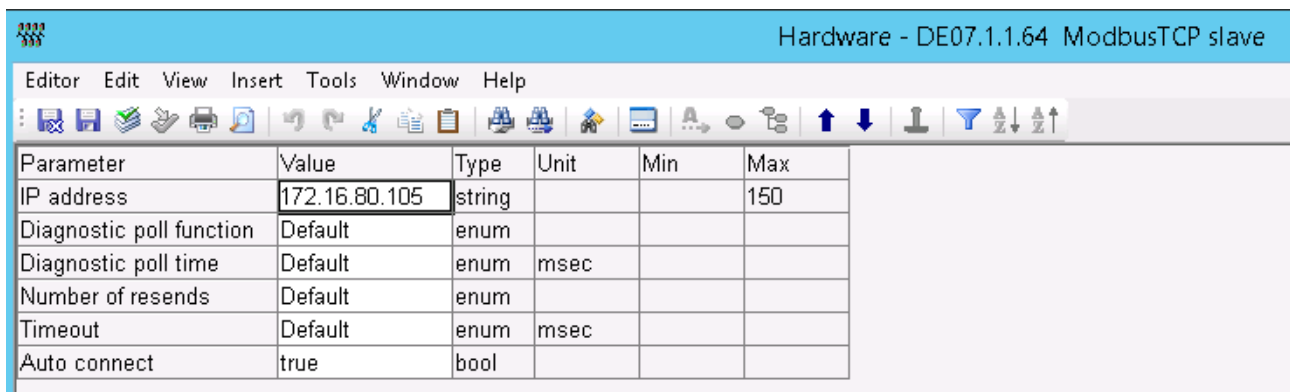
| Hardware - DE07.1 CI867                            |          |        |      |     |       |
|--|----------|--------|------|-----|-------|
| Parameter  | Value    | Type   | Unit | Min | Max   |
| Modbus slave enabled                               | false    | bool   |      |     |       |
| Default gateway                                    |          | string |      |     | 150   |
| Default timeout for serial slaves                  | 1000     | dint   | msec | 0   | 6000  |
| Default number of resends for serial slaves        | 3        | dint   |      | 0   | 6     |
| Default diagnostic poll function for serial slaves | LoopBack | enum   |      |     |       |
| Default diagnostic poll time for serial slaves     | 4000     | dint   | msec | 0   | 60000 |
| Default timeout for TCP slaves                     | 1000     | dint   | msec | 0   | 6000  |
| Default number of resends for TCP slaves           | 0        | dint   |      | 0   | 6     |
| Default diagnostic poll function for TCP slaves    | LoopBack | enum   |      |     |       |
| Default diagnostic poll time for TCP slaves        | 0        | dint   | msec | 0   | 60000 |
| Exception Register Address                         | 1        | dint   |      | 0   | 65535 |
| Diagnostic Register Address                        | 0        | dint   |      | 0   | 65535 |

### Settings in 100 mbps port



| Parameter                | Value         | Type   | Unit | Min | Max |
|--------------------------|---------------|--------|------|-----|-----|
| IP address               | 172.16.80.101 | string |      |     | 150 |
| Backup IP address offset | 0.0.0.100     | string |      |     | 150 |
| IP subnet mask           | 255.255.255.0 | string |      |     | 150 |

### Settings in ModbusTCP slave



| Parameter                | Value         | Type   | Unit | Min | Max |
|--------------------------|---------------|--------|------|-----|-----|
| IP address               | 172.16.80.105 | string |      |     | 150 |
| Diagnostic poll function | Default       | enum   |      |     |     |
| Diagnostic poll time     | Default       | enum   | msec |     |     |
| Number of resends        | Default       | enum   |      |     |     |
| Timeout                  | Default       | enum   | msec |     |     |
| Auto connect             | true          | bool   |      |     |     |